

VOL. 31.

A. W. Stelfox.

DIARY

OF

HYMENOPTERA, OTHER INSECTS, PLANTS, Etc.,

SEEN OR TAKEN BY A. W. STELFOX

From 10th Sept. 1961

until 10th April 1964

10th Sept. 1961. A warm, calm, humid day, after heavy rain during previous evening & night: cleared all rain, but vegetation dripping, commencing to dry late afternoon & then only where a slight breeze (S. or E.) & sun had dried it. Left home with bike at 10.20 AM & walked to Gungahland Gate into Tollymore Park as clock struck 11 AM & collected till 4.40 PM in four areas, as follows:-

1. = Course from Gungahland Gate to foot of Riggie Pass. 11.0 till 12.40 noon.
2. = Riggie Pass: 12.40 till 1.15 PM.
3. = Area of old woodland S. of Gungahland Gate. 1.15 till 2.40 PM.
4. = on way back from 3 to Gungahland Gate via the quarry. 3.30 - 4.40 PM.

Tollymore Park, Co. Down.

Insects in killing bottle - mostly from station 1.

Schistocerca red ♂ = *S. gregaria* but face & not all yellow - whole body yellow with centre of face & apex of elytra black. 1945. 20.10.1961.

Coelocryptus = *Spilocryptus* *hopei*, ♀, ant. 26.

Phygadeuonid ♂, ant. 32, not abd. =

Pimpla (*apiculator*) *confusus* ♀, ant. 25.

P. flavicornis Thoms. Range ♀, smaller ♀, ant. 29 & 27 respectively.

Leucospis *basalis* ♂, ant. 41. *L. cf. transversa* ♀, ant. 32.

Dacnusa *praecox* ♂, ant. 34 ♀, not abd.

Homocidus *tormentorius* ♀, ant. 22.

Dipteron =

Hemipteron =

10.9.61, cont. - Tollymore Park, DO, cont.

Taken at 1 + in meadow.

Cryptine 5, including *Leptocryptus* sp. ♂, not mtd.

Pezomachus sp. small ♂, blackish, ant. 16.

Chalcids? sp. ♂, ant. 23. *Hemiteles*? sp. ♀, ant. 17.

Microcryptus? sp. ♀, ant. 21 (possibly not the genus).

Stenobothrus 2 ♂♂, 1 very small, ant. 27 = *P. flavicornis* Th.

Stenobothrus ventral side very pale ♂♂; none mtd.

St. ruficornis ♂; not mtd.

Homocidus pectoratorius 10 ♂♂ not mtd. *H. flavolineatus* 5 ♂♂ not mtd.

Pezomachus *montivorus* ♀; ant. 18.

Camptoplygid 3 = *Gymnospila antennator* Htg. ♀, ant. 32.

Angitia sp. ♂, ant. 31, also another ♂ (? sp.), ant. 33.

Leptocryptus albipalpis ♂; not mtd.

Meteorus filator ♂, ant. 27.

Aspilota 3 = *A. crassifemur*, large ♀, ant. 25.

A. fusicornis 2 male ♂♂, ant. both 15.

Dacnusa areolaris common, but not quite so abundant as previously.

Ephedrus *reluctans* ♀; not mtd.

Diphrisis ♂ & 3 ♀♀, yellow abd. = 2 ♂♂ (ant. 16) *A. pseudopulchra*, but ♂♂ (2) different.

Praon 8 (2 minute!) = *P. albifrons* ♂♂ = *lanceator*? sp. ♂.

Oxytelus of *maculata* ♀.

Chalcids 50-60, including one little fat one with blackish wings.

10.9.61, cont. Tollymore Park, DO, cont. 3

Taken at 2 + in meadow.

Hemiteles? sp. ♂ not mtd.

Homocidus pectoratorius ♂, not mtd.

Plectiscus sp. ♂, ant. 32.

Rhyssalus elevator ♀, ant. 26.

Dacnusa longicauda ♀ & lots of *D. areolaris*.

Chalcids, ♂ cc 18, incl. 2 v. small fat specimens. } none mtd.

Taken at 3 + in meadow (old woodland). [23 mounted]

Ephedrus ♀, ant. 18, blackish. Not mtd.

Hemiteles? sp. ♀, ant. 22.

Stilpnus *gajellus*? ♂, not mtd.

Dacnusa *variabilis* ♂, ant. 41; in all 19.4.12 } 7. *D. areolaris* to *variabilis*!

Polyblastus of *tuberosus*, ♂, ant. 24. Very near *lanceator*. *medialis* Hal. but propodeum small & big 5th lateral lobe & hindwings?

Stenobothrus ♂, ant. 23. *Pezomachus*? ♂, ant. 25. *Pezomachus*? ♂, ant. 23+.

Oxytelus of *maculata* ♀, ant. 27; also a small ♂, with antenna broken off short.

Homocidus flavolineatus ♂. *Polyblastus* *montivorus* 3 ♀♀, ant. 32, 34, 36.

Mesochorus sp. ♂ & ♀ (ant. 38 ♀; ♂ better 41).

Camptoplygid ♂ = *Angitia*? ant. 31.

Plectiscus ♂ = *Plectiscus*? ant. x.

Episcus *montivorus* ♀, probably off Holly; ant. 23.

Blacus *lanceator* ♂; not mtd.

Aspilota 3 = *A. crassifemur*, 1 minute ♂, ant. 19.

A. f. fusicornis var. *nigrescens* ♀, ant. 16.

A. f. fusicornis? ♀, ant. 16.

Dacnusa areolaris abundant. none mtd. *Triclistus* sp. ♂, not mtd.

18 Tullymore Park, DO, cont.

12.9.10 g. 61. cont.

Proctos (large) 7: 6 mtd. = *Liptochapla* sp. ♂. *Actinorhynchus*? ♀.

Oxytelus maculatus ♂. 1 of *Zygote ruficornis* hatched. ♀.

Chalcid ♂, ca. 190: sent to Graham.

Taken at 4.5 in garden.

Cryptids ♀: none mtd.; except one → *Perizonia* ♂ ant. 22.

Homocidus pulchellus & *obovatus* 1 ♂ of each. not mtd.

H. sp. near tricolor ♀, ant. 20.

Pimpla ruficornis 2 ♀♀ (not mtd.) + 2 ♂♂: none mtd.

Orthocentrus sp. (of *stigma*)? ♀, ant. 31. (Possibly *stigma* with *stigma* with *stigma*?)

O. (?) of *ambigua* sp.? ♂, ant. 25.

Stenomacrus ventralis ♀ & 7 others. 5 mtd. = *St. f. communis* ♂? ant. 25.

S. ambigua Rown. 3 ♂♂, ant. 21, 22, 22.

Pentamerus ♂ = *Symplexis*? of *xanthostoma* Först.? ♂, ant. 20.

Leptocryptus ♂: not mtd.

Aspilota ♂, ant. 17, possibly a small "minor" with dimple, very robust & somewhat prothoracic & reddish legs! but very common & nearly hatched.

(14) 10.9.10, cont. Tullymore Park, DO, cont.

Dacnusa longicauda 1 ♀. *D. areolaris* abundant.

Ephedrus ♂, ant. 22.

Proctos (large) 15. 5 mtd. + 1 small = *Challengeria niger* ♀;

galeus ♂. 1; *Oxytelus maculatus* ♂

actis ♂ =

actis ♂ =

Chalcid ♂, ca. 50: sent to Graham.

While long I was in the garden I saw a very small *Chalcid* ♂, ca. 50: sent to Graham. It was very small & I was not sure of the species. It was very small & I was not sure of the species. It was very small & I was not sure of the species.

11th Sept. A nice dry day with much hot sun & bright then heavy showers were about us got now till 6 PM. when a heavy shower passed over us.

12th Sept. Heavy rain & S. S. gale all day. 85 inches of rain reported next morning in Spilge Ave. rain gauge.

13th Sept. A very fine sunny day, with beautiful clouds, some showers about but we got only one before 2.30 PM. Left home in 7th Baldwell's car & drove to the Spilge Valley (George having got us a permit to visit the Waterworks & the Ben Brown reservoir at head of the valley). Left waterworks at 12.40 noon & drove toward the Spilge Valley, where stopped & had lunch in car a mile S of the gap.

After lunch Mr. Baldwell & I crossed the White Water River & spent a couple of hours along the cliffs on E. side of River - rock str., during which we had the heavy showers which made the steep slopes below cliffs very slippery. I saw one plant of *Epilobium peduncatum* on cliff at foot of gully. Home at 4 PM & George came for tea.

14th Sept. 1961. A very nice day, with hot sun, & no shower, cloudy which I got out garden before lunch & cut back lawn.

Gale & rain from 2. came on in evening.

15th Sept. A windy day with sun in middle of time & a gale springing up late at night, but not a hot day on the whole & some good weather. There was some rain at 2 P.M. I saw 1 Red Admiral butterfly on flower of *Erica stricta*.

16th Sept. After a stormy night with rain at times, the gale increased & increased from SE-S till mid afternoon when it began to ease off, but some gusts continued at intervals & it was reported in the mid school news that gusts up to 118 miles an hour had been registered in Wiltshire. No rain fell here during the day after 10 A.M. & from that onward we had a mainly blue sky & sunny periods. Clouds gathered about 6 P.M. & slight drizzle followed.

In afternoon Mr Wood arrived with a four foot high *Rhododendron* - "Ward's Hybrid" - which he said had got too big for his garden & he said he was looking for a good home for it. So we planted it in the SW corner of the main plot in back garden (opposite the Whims!) where our original compost heap had been formed in 1936, & but in a nucleus of a new *Rhododendron*-Heath patch.

16.9.61, cont.

which I saw about 4 o'clock. We also transferred two *Lychnis*, one by *emerald* from the border by the Burn Path & the other No. 13, by Dr. Gosthock from the plot (around the round of the Buries) near Genderson's fence. These were moved as they were overgrown & smothered by quivering grass. Later I visited 8 or 9 rocks around the corner to make it possible to get at the new plot without treading on the soil & into it I will put 2 *Rhodo*. "Elizabeth" & 2 *R. acuminata* (which I ordered from St. David's nursery) & the many cuttings & seedlings I have been given of *Lychnis*, *Phlox*, *Salvia* & *Veronica*. *Erica* ^{on the little oak in back garden I took a *Polytrichum* which is same as *P. tiberi* at Skene, Co. KD, on 19.9.46!} *acuta*.

17th Sept. Sunday. A most perfect day! After a partly pessimistic forecast!! Sun & blue sky & light SW. air all day. Driven by Mr. Caldwell, with his wife, & Mr. Wood, we spent all day in Tollymore Park from Courtyard gate to the Spinkwee River. Mr. Caldwell & Mr. Wood spent much of the time studying the ferns & collected a number of spores which I will send first to Blair Ferry in B.M. & besides *filix mas*, *filix-foemina*, *regalis*, *aculeata*, *dilatata*, *oreopteris*, & *acuminata*, there appear to be *hemiopteris* & a thin hard fine set, upright fern related to *filix-foemina* (according to her - *filix*) but which both Mr. Wood & Mr. Caldwell went from as this fern & also one which seem to agree with *cristata*. I also filled one macker.

17.9.61, cont. Tollymore Park, Co. DO., cont.
 with insects swept in wood on E. side of Spinkmore & above
 Horse's Bridge or along the road N. of the bridge as far as
 the cross-roads, 1/4 mile from bridge. Had lunch by the
 Spinkmore above the bridge where saw many Spotted Wood
 running themselves & playing about. Also saw very small
 Small Heath (2nd brood) & Daisy reported a *Stenobothrus*
Butterfly. Mr Wood confirmed by smell of crushed bark
 my *Prunus padus* reported in diary on 25th June.

The following insects taken near the Spinkmore: — 2-3 PM.
Cryptus 10. *inciliator* 5. *Stenobothrus* 5. *Leptocryptus* 1. *ant. both 28.*
Hemiteles areator? ♀, ant. 21. H. sp. *ant. 17* (1st brood) ant. 17 or 18. H. (or H.) sp. ♀, ant. 18
H. areator? sp. ♀, ant. 20; also a ♂, ant. 20, but same sp. 4. sp. ♀, ant. 17
Polyblastus vestitus 3 large & small ♀♀; others seen! Not mtd.
Mesoleptus of fasciator ♀, ant. 46.
M. of fasciator, ♂, ant. 49.
Orthocentrus asper ♂, ant. 24.
Pezomachus verticillatus ♀: not mtd.
Stenomacrus militatus 3 ♂♂, 1 ♀, not mtd. *Sicentulus* 2 ♂♂. not mtd.
St. laticornis ♀: not mtd.
Pezomachus — ♂: not mtd.
Megastylus areator 1 ♂, 2 ♀♀: one ♀ mtd., ant. 46.
Apanteles 1 ♀, ant. 21.
Dicelus laticornis ♀, ant. 33.

Phaenocarpa seen

17.9.61, cont. Tollymore Park, DO., cont. ✓
Meteorus jaculator Hal. ♀, looks nice! Yes!! And better off beyond 17th seg.!!
Aspilota spp. 2 ♀♀ = *A.* sp. 1 minute ♀, ant. 16, with sharp
A. sp. a ♀ with marked mount, 22 seg. ant., black longish & narrow stipes,
A. sp. a ♀, smaller, but smooth propodeum, not longish, longer, black, less
Stenomacrus (H.) *areator* 2 abundant in trees & on other species seen.
Apanteles *areator* Hal., a minute ♀: ant. 13? head, ♂, full off when clipping and 1/4 seg. }
Proctos large 16, 3 only mtd. = *Cryptoserphus areator* Stalper, ♀, but darker than the type! }
Aspilota rufopatiolata ♀
Oxytelus maculata ♂
Chalcid 2 small *Proctos* 2 on 1000 & sent to Graham.

18th Sept. Another perfect day: all sunny in forenoon, cloudy
 for most part in afternoon, with light E. SE wind, as anticyclone
 over England moves away eastwards.
 Got ferns collected yesterday from Mr Baldwin in morning
 & in evening packed them in rolls, with letters ready to post
 tomorrow to blue ferry in Dept. Boat at 10. M.
 As per list attached to his letter dated 23 June '61.
 Spent rest of day cutting back lawn & had bonfire.
 19th - 21st Sept. Miss J. Aldine Roche of Nat. Mus., Dublin
 arrived at 4 P.M. on 19th & left Newcastle at 11.00. on 21st.
 She came to dinner & get advice about specimens of a
Stenomacrus (Roche sp.) in the Helicony hall. I stayed
 at McNeill's guest-house.

19th - 21st Sept. 1961, cont.
 On 20th in afternoon we & Mrs. Packer went to Diamond
 Lodge & for part on E side of waterfalls & house by the lower
 valley of the Green Hill. I swept & for insects, by stream
 from Diamond Lodge to the river of Diamond Lodge &
 a few more along upper (old) road W. of the Green Hill
 I took the following: - Very warm sunny day on 20th
 Diamond Lodge, Co. Down 3-4 P.M.

- Hemiteles spp. 2 m. & 1 f. = H. cf. quadripes, ♀, ant. 20
- Microcryptus nigrocostatus ♀, ant. 22.
- Pezomachus sp. ♀, ant. 20.
- " " ♀, ant. 21.
- Pimpla flavicornis group, small ♀: not mtd.
- P. ovivora (argus) ♀, ant. 28.
- Lissonota sulphurifera ♂, yellow front & mid. coxae: ant. 40.
- Orthocentrus 1 m., small ♂, dark leg., cf. O. repentinus ♂, ant. 26 (but very small!)
- Stenomacrus cf. maculatus ♀, ant. 22, but tergite 2 entirely smooth!
- Phaenocarpa sp. ♀, ant. 20. Proctos sp. ♀, ant. 21.
- Colletes braconiformis small ♀, ant. 29.
- Colletes ruficornis ♀, ant. 20. B. humilis group, ♂, ant. 19.
- Diapriids 2 m. & 1 f. common. B. longicaudatus: not mtd.
- Praon 6 or 7: 2 mtd. = Gyalochus maculatus ♂

and
 Chalcids ca 10.
 by itself 1.

21-9-61, cont.
 Night of 20-21st very heavy rain, but 21st cleared at 11 A.M. & a
 fine very warm sunny day followed as wind went from S-SE
 to SW-W & full light. Took Hemiptera Piezodorus lituratus
 in back garden, fed mainly & cut new grass in woods.
 22nd Sept. 1961. After a calm night & heavy dew, a very fine
 day with cool E. wind & hot sun, becoming cooler towards
 evening. Left front lawn in afternoon. Otherwise uneventful.
 23rd Sept. 1961. On the whole a fine day, but very humid with
 variable light with SE-S-SW & several short showers, but no rain
 appeared to be falling all round. Much hot sun in forenoon. Rain
 in evening when wind had dropped to calm.
 In afternoon Mr. Goldwell & I set out in his car for new road E. of
 Drinahilly & walked via the new sheep-gate in wall along N. face of
 Shinn-na-baddy & Shanahine to source of Tollymoregan Burn
 where I showed Mr. Goldwell the Burrell Farm, Cryptopterus fugilis,
 Sedum rosea, etc. on the cliffs NW of Shanahine at ca 1500 ft.
 These cliffs "Stewart & Grainger" (pp. 374-375) refer to as the
 "Black Stairs", but local inhabitants of Newcastle have told
 me that this name refers to the steep, on W. side of Thomas
 Mt. above the Lee House by the Glen River. I do not know
 which is correct! NB. Canon Lett in his paper on the fauna of Newcastle calls them
 "The Black Rocks on Shinn-na-baddy" & is no doubt right in doing so!
 (1964.)

24th Sept. After rain during early part of night & a heavy dew
 later, a dry day with much sun & light variable wind S-SW. Coolish.
 Left home with bicycle about 10-20 & spent day in Tollymore

12 24.9.1961, cont. Tollymore Park, Co. Down.

Park, especially to get photo of *Vaccinium myrtillus* growing with *Polytrichum* as an epiphyte on an old oak at Harris Bridge over the Spinnaker River, but also collected insects. Though the vegetation very wet & never properly dried in shelter.

Filled 3 buckets from Galloway river. ^{Photo of foliage in single sunlight!}

- 1 = roadides from Burrenhead Gate, up slaggies, end of Way S. side of the west Dargle House Bridge of Spinnaker.
 - 2 = Spinnaker River, S. side bridge, & N. to across road 20.25.14
 - 3 = From 4 across road, home via N. side of the Dargle & slaggies.
- Put. 2.0.14 30 P.M. Home 5.10 P.M.

Tollymore Park, DO.

In killing bottle.

Ichneumon extensorius ♂, ant. 31 & very stout & blunt apically.
Limnobia sulphurea ♂, ant. 41: fore coxae yellow-white!
Lamprostoma melanochloris ♂, ant. 29.

Chalcidius inconspicuus Schmid. (var. of *sectator* Thoms.) ♂, ant. 47, ♀, ant. 45.

Mesochorus cf. fulgureus ♀, ant. 45, large example.

Phaenocarpa ♀, not mtd.

Beetles 3 of which two greyish with brown except off *Rubus idaeus*.

= *Byrrhus uliginosus* (= *lucorum*) The Raspberry Beetle!

24.9.61 cont. Tollymore Park, DO, cont.

Insects taken at 1 & 2 inches.

Hemiteles sp. ♀, ant. 22. *Pezomachus cf. lucidus* ♀, ant. 26.

Microctonus ♂, ant. 25.

Polyblastus westringi 2 ♂♂, not mtd.

Stenomacrus ventralis 2 ♀♀

Orthocentrus cf. petiolatus Thoms? ♂, ant. 27, ♀, ant. 25: (also of *pectus* mtd. ♀ 34.14)

Mesochorus sp. ♀, ant. 34.

Phaenocarpa sp. ♀, not mtd.

Plectiscus ♂, ant. 20 = *Plectiscus*

Rhyssalus clivator ♀, ant. 24.

Opius lineator H. ♀, ant. 23.

Dacnusa areolaris ♀♀, not quite a standard ex. recently.

Proctos. (large) 5.

Chalcids, sp. ca. 35.

None mtd.

Taken at 2.

p.t.o.

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(2) 24.9.61 cont. [Only 1 contd.]

Technical 3.

New York? 4, art. 20.

Hemitelia sp. ♀, ant. 21.

H. 2 1/2

7 a minute
1st ant 20

Altitude - 7000 feet. 21

Titration: of 0.2, 0.4, 0.6, 0.8, 1.0, 1.2, 1.4, 1.6, 1.8, 2.0

Al. glutinosa p. 9, ant. 20.

Aerodactyla degener Hal. large $\frac{23}{7}$, ant. 15

Tollymore Park, Do., cont.

15

(3) 21.9.61 cont.

is your *Campestris*. now into

16.

26th Sept. 1961. A cloudy day, with strong S. wind & rain in drizzle - late afternoon, clearing & wind falling before bedtime.

27th Sept. After a dry, calm night & nice forenoon with considerable hot sun, cloudy in afternoon, & rain by 4 P.M. Wind light, variable, mainly SW, but E at times in forenoon. Made bonfire & cut back to Canon.

28th Sept. Heavy rain all morning: in afternoon we went for walk in the Howard Lodge wood, & home via the Green Hill.

29th Sept. After a dry night & early morning a trough with rain, SE-S. wind, arrived at 11 A.M. & high wind & heavy rain lasted well into afternoon, then wind dropped & rain ceased. However got front lawn cut before rain & then cut up dead tree which fell earlier this year in fence between us & No. 10 Slierborough Av.

30th Sept. After a windy forenoon (S-SE) with sun, the afternoon commenced wet, but rain & wind both ceased about 4 P.M. & we had a dry calm night. Mr Wood brought the two *Rhododendron culpinense* which I planted at each end of the new plot at SW corner of back garden opposite the whins, & later I moved two seedling *Erica vagans* & planted them in front (1st) of the *R. culpinense*.

1st Oct. A calm, warm day, after a calm night. Cloud drift from N. but only the faintest E. draught here & much sun till 4 P.M. Spent 2 hours with Mr Wood looking over fine fronds of ferns, he had got the previous day in to Salford, Burn Glen, near Holywood, & in W. garden. In afternoon we walked via Howard Lodge to S side of the ridge E. of the millstone lot, had cup of afternoon tea & came home by same route.

2nd Oct. 1961. After a dry night, wind rose from SE & rain commenced about 9 A.M. & increased (with SE gale) till at 11 P.M. it was raining, the proverbial "cats & dogs". Mild.

3rd Oct. After a fine start, & wet afternoon, mild & calm. No rain & colder at night. Mr & Mrs Baldwell & Mrs. Ireland & Pat came in evening to see colour transparencies of Slier beach, St. Lawrence, St. David, &c.

4th Oct. Dry, but dull, calm, & very dry in forenoon: drizzle off & on in afternoon & rain in evening. Cold & mild. Received much seedlings of heaths, &c. from front border & transplanted them in back garden along N side of upper part W. of steps. Received parcel of bits of *Castroaleptis* *alpina* from Hay, Orkney, from Mrs. Baldwell, & planted most in a 10" pot in shed + rest, but two bits I planted in front of a stone in new corner plot in SW corner of back garden. Mrs. Baldwell also sent slip of a cutting from *Sedum album*, which I planted behind the seat by the back-path. She also sent fruit of *H. alpina* which I have yet to deal with. Two original plants of *Phyllodoce* W. of greenhouse now in good flower over now. Ten bags of wood block received from ^{East Dornoch} S S Co. Ltd.

5th Oct. A dull damp day after rain at night, with drizzle & rain in late afternoon & evening. Started to dig front border.

6th Oct. Strong SE wind, cloudy, but no rain till evening. Finished digging front border & trimmed *Berberis* hedge.

7th Oct. After a dry, calm night, a very humid, no drying, but no rain, some hot sunny intervals. Trimmed the heaths in front border as these were tending to smother the dwarf *Agrostis*. In afternoon I moved the 3 *Phyllodoce* to new plot at SW. apt of back garden - two of them were in flower.

18th Oct 1961. After a dry calm night we had a short period of drizzle at breakfast then a nice sunny forenoon, but during the afternoon several short showers passed over from SW.

Sunday. In forenoon I transplanted rooted cuttings taken August-1960 from pot (which had been in greenhouse over the winter & till about 8 weeks ago) to first of new corner plot at SW angle of back garden - these included *Phyllodorus* (2), *Erica carnea* (2), *E. cilicaria* (1) & *E. cinerea* (1: white?). Also transplanted cutting of *Skimmia* from Skimmia House, & March 1961 & now well rooted. During the week I have put in greenhouse numerous cuttings of *Agave*, after their being over 24 hours in a rooting hormone fluid (now some 15 years old!). In afternoon we had walk in Drimsilly Plantation, as far as the Tollymoreigan Burn, where during last few months the Forestry Dept. has carried out extensive thinning operations & made a fearful mess of the ground. Ordered 12 10x8" 2x4 hard stools from L. Christie, London, @ 13/- each.

After many days (2 or 3 weeks) without seeing any sign of Swallow tails seen flying between our house & Downard Park: one definitely identified by its forked tail was an adult Swallow - one gave a flash of white as it turned must have been a House Martin.

4th Oct. After a stormy night, very cloudy over before dawn & thick drizzle or rain fell all day with E. breeze, except during brief spell in afternoon when breeze came from SW. During wind increased to almost gale force (SE) but had moderated by bedtime. Swallow tails still here & their recognised were House Martins!

10th Oct 1961. A very nice day, after a dry somewhat windy night (S) & no dew, but got cold at 10 & back to rain, but. In forenoon I had a visit from a new comer, a 2nd Mr. Caldwell who lives in Ben Brown Park & who came to see the garden & get seedlings of *Berberis*, *Erica* &c. In late afternoon had small bonfire.

No Swallow tails seen today.

11th Oct. A perfect summer's day! Almost windless, & sunny all day!

12th Oct. Same as yesterday, after a clear stormy night & heavy dew! Saw several *Stomoxys* *lineatus*-like bumble bees at Heather in front border, but too busy to investigate sex of same. If many to be common should try to solve this problem. Spent forenoon cleaning up N end of front border on Sanifrage, &c. was gathering the dwarf *Agave*. In afternoon cut grass in verges & did some other jobs. ^{Brought the *Agave* indoors into house, cloudy with several flowers on it}

13th Oct. Another entirely sunny day, but not so general as 11th/12th owing to fresh E.-SE wind off the sea, after a dry stormy night but less dew owing to breeze. Collected up the *Daphne blagayana* back S. of greenhouse in forenoon & had bonfire in afternoon of Daisy's clippings of the straw-hen: during last two weeks the old plants here flowered 2 or 3 times as profusely as in May, but little of the fruit has ripened & the flowers were poor. Many *Hirundines* (? all House Martins) seen flying around in early afternoon. ^{Brought the 2 *Agave* plants into house & found that *Agave* had many buds, showing 2 or 3 nearly out.}

14th Oct. After a misty start, a very sunny day with some light clouds gathering in late afternoon. A good & dry day as 11th & 12th & pleasant than yesterday. The House Martins again seen in early afternoon. Captured one of the *Stomoxys* sp. sp. to

20.

14. 10. 61, cont.

on 12th Oct. It appears to be a very large ♀ of *B. lucorum* & like the others seen in very fresh, i.e., not at all frayed, & showed no sign of having been collecting pollen. I can only assume that these bees were hatched in a deserted nest, so that no duties remained for them to carry out, beyond that of feeding themselves. Saw four or five on 12th, forgot to look for them yesterday, today caught one & saw another on *Erica vagans* flowers in front garden & a third on flowers of *Erica stricta* in back garden. All seen very large for ♀♀ & very fresh. In forenoon nearly finished clearing up front border & removed some of the 'rue' from it for use in new plot at SW angle of back garden near the outhouse.

15th Oct. Another dry day, after a misty start, though much of England blanketed by fog for last 24 hours.

More cloudy later & cooler & rain forecast, but no sign of any here up till sunset. Sunday. In afternoon we had walk across Tullybrannigan Burn & home through Drinahilly plantation, where much cutting by lawns carried out during last few months. By the T Burn I took off a fungus, which proved to be a ♂ *Stilpnus cf. gagalis* & found on examination this evening that it has not a vestige of any wings, but that its legs were torn off as well - if torn off? - I have no idea. Earlier in the day I carried into the kitchen an apple, just

taken off a cordun, a ♀ *Hemiteles*

on 14th Oct. I received from F. S. A. Rayner a ♀ *Schismus tetrator* var. mean, taken at Inishtrahull, F. Donegal, by D. J. O'Sullivan the left keeper!

15. 10. '61, cont.

Many House Martins (14 possibly a few Swallows) flying about most of the day! On way home this afternoon & evening I saw Greenhill Park we saw about six or seven of *Bombus lucorum* on flowers of *Androsace*, *Prunella*, the yellow face of the one sitting at once the identity of the species, shown by the I have recorded on opposite page.

16th Oct. After some wind & rain during night, a cold mainly dull day with occasional drizzle. During the forenoon I received back 7 species of moths taken from the garden some days ago by Mr. Lind as Baldwell with tentation was as follows: - *Polytrichum unigenum*, *P. albidus*, *P. nanum*, *Pottia* sp.?, *Hylocomium speciosum* (in fruit lawn), *Catherina undulata* or *? tonella*, & *Bryum argenteum* (var.).

During forenoon I saw only 1 or 2 House Martins today! Continued clearing up front border & nearly finished the work.

17th Oct. A very wretched day & cold with strong to gale NW wind & heavy showers, but the afternoon cleared somewhat & we went to Donard dinner for first time this autumn & returned with enough leaf-mould to fill the wheelbarrow. In spite of the bad weather I saw a fresh ♂ *Bombus lucorum* on a *Cornus* flower in back garden. No House Martins seen today! Finished clearing front border in forenoon!

18th Oct. Cold, with gale from NW evening in evening - but day is mainly all sunny. Started at front gate to tidy up sides of the new lawn in forenoon & till afternoon. In early afternoon we fetched home another barrowful of leaf-mould. Saw one House Martin at 8.30 AM, & two during dinner, ca. 1.30 P.M.

22

19th Oct. 1961. After a fine morning, then I cut the front lawn, a cloudy afternoon with slight drizzle. Continued clearing up the sides of the lawn in front garden. Took up one of the *Salix repens* agaves, potted it & put it in greenhouse for winter. Wind N & strong, cold. Saw one *Thrush lucorum*.

20th Oct. After a stormy night, a cold day, forenoon with considerable sun, but drizzle came on in early afternoon & continued at intervals. In forenoon, I continued to clear up sides of the lawn in front garden. In afternoon I got a bonfire going & finished it the middle of the new plot at SW corner of back garden. Several House Martins seen during morning & afternoon. Took photo of *Agrostis sylvatica*, with flowers open in sun about 10.30 AM & noted that flowers closed when sun went off then not long afterwards.

21st Oct. After a fine night & forenoon, a fine wet mist came down from Slieve Donard with a southerly rising wind, which gradually increased to drizzle & finally rain, with rising temperature. I spent the forenoon placing wire netting along bottom of the hedge along the lawn in front garden from the old ash tree to road. No work in garden possible in afternoon. No House Martins seen today & no birds have been looked for.

22nd Oct. After heavy rain in early part of night, dry later & a fine early forenoon, but clouded over by midday with rising southerly wind. Rain started at 3 P.M. & wind reached severe gale (7 P.M.) & still blowing & raining (from S-SE) at bedtime, with sun full in glass. Many House Martins seen between 3 & 4 P.M. around roosting trees & one back garden just after rain came on. Transplanted seedling *Phlox subulata* from W of greenhouse to NE side of new plot at SW angle of back garden.

After paper into greenhouse.

23

23rd Oct. 1961.

After severe gale & heavy rain all night, we had a dry sunny day. But wind still strong (SW) in forenoon, dying down but not until it had turned W. Spent forenoon mowing, mowed grass in greenhouse roof & on fire, *Sylphium* in flower. In afternoon we collected leaf-mould in Dorset Lodge road, & soil. George came to tea & I & I brought some nice "rocks" down in his car from the plantation. The damage done to stone beside the cracked pane in greenhouse, only caused by a few things, like *Salix repens* etc. broken down. Two or three House Martins seen at breakfast, i.e. 8.0 to 8.30 AM, but none later.

24th Oct. After another night's heavy rain & gale from SE, a dry, mainly sunny, fine day, with southerly wind, & dying down in afternoon. Spent forenoon visiting Mr & Mrs "Bent" Baldwell, in their new house, in Beech Grove Park, to see the progress he has made in his garden. He has gone in largely for concrete blocks & to "work garden" in centre of front plot consist of a "Devil's Lapful" of large rounded stones or rocks scattered at irregular intervals over the surface.

In afternoon while Daisy was shopping I brought down another load of leaf-mould. Thanks to George & car we brought down about 15 small rocks from the woods yesterday afternoon & I began to work these into the new plot near the ash tree. No House Martins seen today!

Arising out of an article in July number of *Watsonia* by R. H. Robert on variation in *Dactylorhiza purpurella*, in which he gives counts of the number of

24. Oct. 1961, cont.

leaves per stem, counting all below the lowest flower. In fact, I cut off all remaining spikes (one I had already sent him about a month ago!) from the hard Orchid (*T. truncatissima* Regel) which appeared in a box of plants in my yard in Dublin & is now 6 or 7 (13) years old & this year bore nine spikes of flowers of various light. Here are the heights & number of leaves per spike! —

1. Height 20 inches, diameter of stem at base $\frac{1}{2}$ inch, no. of flowers approx 60-70, actual length of flower spike 8 inches, leaves 8
2. Sent to Mr. Roberts & nearly as large as No. 1

- | | | | |
|-------------------------------|--------------------------------|-----------|---------------------------------|
| 3. Height 18" | Flower spike 6 $\frac{1}{2}$ " | Leaves 7. | Still green |
| 4. " 12" | " 4" | " 5. | " " |
| 5. " 12" | " 4" | " 3 | Dead & brown |
| 6. " 10" | " 2" | " 4-5 | " " 5 th leaf minute |
| 7. " 7" | " 1 $\frac{1}{2}$ " | " 5 | Still green |
| 8. " 7" | " 1" | " 5 | " " Stem $\frac{1}{8}$ " |
| 9. Blown away by a west gale! | | | |

25th Oct. After a clear start, rain & SE gale occurred for some hours before dawn, but weather cleared & we had a sunny day with decreasing SW. wind & no rain fell till about 4⁰⁰ when a light shower was followed at 5.30 PM by light rain.

Collected leaf-mould in afternoon. Weeding also.

26th Oct. '61. After a very fine calm night slightly cloudy, occurred between 9.00 AM till about 2.00 PM but once the old day of us had a fine sunny afternoon with light SE wind falling calm later. Spent forenoon pruning shrubs in front garden & in the afternoon I went to see Mr. Lavery. At 2.30 PM in sun I watched a ♂ *Bombus lucorum* at the white St. Helena Heath in back garden. The flower is in flower.

27th Oct. '61. After a heavy dewy night (almost frost) a mainly cloudy day, but some sun, with NE-N. light wind - though not cold - spoiled by a shower at 2 PM. I should have said half an hour & just as I was about to start a bonfire. In forenoon I continued to clear up sides of the new lawn in front garden, but was interrupted by a caller - Mr. Kowley - a American who with his wife here recently came to live in White Court House. While showing him round the back garden I saw a very fresh ♂ *Bombus* [See below] on the white St. Helena Heath (next the Maltonia). It looked like *B. jonellus* ♂, but if not then it could only have been a ♂ *hortorum*, but in my opinion far too small for the latter. I hope to see it again. In late afternoon we collected leaf-mould in Donard woods.

28th Oct. A fine cold, dry day, with considerably amount of sun, after a rather windy (W-SW) night, wind light with moderate dew. After spreading yesterday's leaf-mould, I spent entire day tending bonfires & got large stacks of refuse burnt, after some difficulty. Saw no *Bombus*. See now House Martin, but did not get a good opportunity to look for flowers when the sun was out.

29th Oct. Sunday. At 11.30 AM I captured a ♂ *Bombus hortorum* on flowers of *Trachium* in back garden & I am tolerably sure this is the *Bombus* reported above (27th Oct) as probably so. It is absolutely fresh & carried a very small amount of pollen on hind legs. In afternoon we had a walk over S. side of Donard Hill. Transplanted *Erica cinerea* from Farall at WX, & cuttings of *Carrispa* to new plot.

26. 30th Oct. 1961. A dry day after a dry calm night, wind SW. moderate & chilly. Left some rain in forenoon, mild & cloudy in afternoon. Spent day gathering stones, etc. from path along Anderson's fence in back garden, collecting & clearing on N. side of burn along Mr. Harrison's to make foundation in stone for plant which should be stop, but trapped.

31st Oct. Mild & drizzly, (wet at times) most of the day with SW wind, clearing with rising glass & falling wind in evening. George & family here for the day, left for home at 5.45. Planted Filling fern from Glengarraff, given me by Mr. Caldwell (1) in a pot, under bench in greenhouse beside Killarney fern case = *H. terborghensis*. Also erected wire netting along Mr. Harrison's back to stop, water path & will plant *Lychnis*, *Pernettya mucronata* & perhaps *Saxifraga* or two (possibly) at base & on N. side of the wire burn.

1st November 1961. After a dry calm night, mainly dull & dry till 2.30 PM, mild, with rising wind from S or SW (strong in evening with rain & falling glass). In forenoon I transplanted the *Pernettya mucronata*, but found the fragments of it were sufficient to fill space by Mr. Harrison's back, without the *Lychnis* & *Saxifraga* mentioned yesterday.

In afternoon we collected leaf-mould & got home just before the rain.

2nd Nov. After a dry night & light SW wind, a fine early morning with some sun, cloudy later with occasional drizzle in late afternoon & with increasing W. wind & later squally with rain & just before 9 PM. we had a terrific squall - preceded by "surging" of the lights - with gale force wind & hail, then half an hour's dead calm. In forenoon did various jobs in back garden & in afternoon we collected leaf-mould.

3rd Nov. A cold rather windy day, with showers about but most of them passed us by, with mainly calm & sunny periods. Wind N.W. after a cold showery night so that we were able to find the top 1000 feet of Shinn towards fairly white with snow. This is the first snow that has fallen on the house this winter. I took 6 photos. of the little cherry tree in back garden as it is now in flower, though it should not flower till May.

In forenoon I cleared up another stack of the wire burn in front garden, erected wire netting to stop cat, & planted 3 seedling *Saxifraga* South of the *Griselinia* hedge now 2 yards. In afternoon we collected leaf-mould.

4th Nov. The first flower on wallflower (Mr. Harrison's) 2 on location open this morning.

A dry day! Wind light. NW at first, backing, SW in evening. Various jobs in garden in forenoon, collected leaf-mould in afternoon. *Vaccula vulgaris* from riped. In evening we had a visit from Miss. Kentland & Miss. Marion Forsyth.

5th Nov. Sunday. After a dry night, a fine morning but about 10 till fog arrived about midday & strong S.W. wind rose in evening. Very slight drizzle fell in part of afternoon, but we had our usual afternoon walk in woods.

6th Nov. Sunny in forenoon, cloudy in afternoon & rain held off till bedtime. Heavy glass falling & forecast bad. Called on Mr. Caldwell (1) in morning & he gave me a plant of the scarlet form of the Kaffee lily & seedling of what he calls "Cushion" *Saxifraga* (*Saxifraga*?)

28.

6.11.61, cont

M^r Crawford also gave me a sprig of white *Erica tetralix* (from a nursery & not wild!) from which I got 4-5 one inch cuttings, & put in greenhouse in a 3" pot of sand & peat. In afternoon I transplanted an *Azalea* (which was being smothered from plot NE. of the Ginkgo in back garden to vacant spot in front border where the *Azalea* was stolen last Easter. George came for tea!

7th Nov. After some rain during night & still falling, glass, drizzle off & on most of day; mild with fresh S-SE wind, falling light in evening. Did some tidying in greenhouse in forenoon & potted cutting of *Rhododendron williamsianum* taken in autumn 1960 & in pot with other cuttings ever since: I think it has roots & has a nice healthy leaf bud at top.

8th Nov. A most glorious sunny day, after a deep calm night: wind very light SW. Spent forenoon burning rubbish & in afternoon we collected cones in the woods. Barometer low & steady then 34.6 mm.

9th Nov. Another sunny day, after our first real frost of the winter with the cover of ice on the tubs at the greenhouse. In forenoon I brought all pots, which have been out since May last, into the greenhouse: these contain cuttings of *Azalea* taken in Aug 1960, *Erica* from Tarn Valley & Shire Burnage, *Camellia* (a front garden in Weymouth), *Lupinus* (from his nursery), &c. In afternoon we were driven by M^r Caldwell (1) to roadhill S. of Moulton House, where he collected mosses.

29

10th Nov 1961. A windy & chiefly sunny day. After a light frost during night, but no ice on tubs. The *Erica* now quite dead. Spent forenoon getting some plants of *Polygala*, etc., for M^r Rosley & putting up wire fence to stop dogs coming from front & Staden into the wigg. In afternoon we collected leaf-mould. Now three flowers, open, smaller & more delicate.

11th Nov. Another fine day, but a N. & S. cloud formed over the hills & obscured the sun during the afternoon, after further frost in earlier part of the night. In forenoon I distributed yesterday's leaf-mould & M^r Wood called & brought a nice plant of *Rhododendron elizabethe* for the new plot at SW corner of the back garden - the second one to be obtained in a few days. In afternoon we had a walk in Tarn Valley plantation & collected leaf-mould. Had the little oil lamp in greenhouse last night for first time this winter & lit it again this evening, as glass rising sharply all day & an anticyclone stated to be moving down from Scotland. Very heavy rain in London & S of England today & yesterday.

12th Nov. After a while frost (but no ice on tubs) & cold sunny forenoon, becoming cloudy from NE at 2 P.M., with light stuff of rain & becoming colder again later & colder. Wind light & westerly then, though cloud drift NE all day. In afternoon we walked round L. Tarn & home. Dist. M^r Harold Hillier re *Cystopteris fragilis*, which his firm had sold me last January as *C. montana*. Sunday!

13th Nov. A dry, dull & calm day, milder, after a less cold night & no frost, wind NE. & heavy light, but strong in other areas. Put up wire & soil fence at bridge in wigg in forenoon & collected leaf-mould in afternoon.

14th Nov 61.

Another dry day, but dull, after a dry, calm & dewy night, so that I am able to cut both front & back lawns. Spent most of day removing the seven year old *Betula pubescens* brought from Dublin in 1956, as its roots were destroying the legals & *Rhododendron* which I had planted near it. In its place (plot near Anderson's garage & hedge) I have moved *Rhododendron* "Beauty of Littleworth" from border between front drive & lawn (obtained from Donald Murray on 26.4.1958 & which had suffered much from the wind in this exposed situation). By first post today I received an invitation to become a member of a committee to engage into the setting up of a Nature Conservancy in Northern Ireland, which I have viewed together with my reply declining the invitation.

15th Nov. After a dry, calm, cloudy night, without frost, a similar day to yesterday - calm, dry & cloudy. In forenoon I removed the Rowan tree & cut off short the 3rd birch tree in top border, & replaced the former by the *Rhododendron* "Hugo de Vrie".

Returned at 3.30 in afternoon from collecting leaf mould & a few minutes later V.T.A. delivered shrubs despatched by Knapfield Nursery, Woking, on Sat. 11th by passenger train.

16th Nov. 1961. A sunny day, calm & almost anticyclonic day, with a calm & dry night, but in evening a very light drizzle fell. In forenoon I planted the *Populus nigra* which was ordered yesterday & made a plan of the new plot at SW corner of back garden (near the kitchen!). Also planted the Rowan, which yesterday I had removed from top border, in the margin, but found it was not running as I had to cut its roots off short to get it out without dragging with plant near it. In afternoon I had bonfire, continued the plan of new plot & weeded it.

17th Nov. The light drizzle continued all night & all into forenoon the morning, with thick dull fog & mist to midday, but from 10.30 AM till dusk no actual rain fell, though the sun showed & sun clouds & there was absolutely no wind. Dull afternoon, it brightened a little & the hill was visible up to about 2 o'clock. No work in garden possible! In afternoon we collected leaf mould.

18th Nov. Yet another extremely dull day, but unlike the previous day a fresh & cold E-SE. wind blew all day & increased in evening.

Dry after a dry calm night. Spent forenoon putting, & mending, along foot of Anderson's fence (part of) & in afternoon we had a walk in Bramshill plantation & I found the new birch tree like

19th Nov. Sunday. Another dry dull day with light E. wind.

In afternoon I had a bath & then a good walk to Tollymore Park, along S. side of the Green & home by N. side & Riggie's Pass. To see if the two beech logs buried by leaves of *Fraxinus* & *Taxus* were still in place & found them undisturbed.

20th Nov. Yet another cloudy day with NE-E wind & clearing to dawn moon & sun stars about 7 P.M. Spent day weeding, cut fence along back of end of back garden (very) & had a bonfire.

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21st Nov. '61.

Another entirely dull day with E. wind, dry but not so cold with wind falling light in late afternoon & given cloudy gallery as anticyclone recedes northward, & some rain said to be approaching from SW. Had bonfire in forenoon & collected some leaf-mould in afternoon.

22nd Nov. After heavy rain before dawn, a drizzly forenoon & damp (no rain!) clouds, & mild afternoon, when Daisy & I went to see Mr. Livers to return some books. He gave me seedlings of *Lilium auratum* for H.E. Green. The seeds of the Lily in first season produce small bulbs & for which in 2nd season (occasionally in 1st!) the first leaf springs from side of bulb, & so!

From 10.30 AM till dinner time two Waxwings were in front garden feeding on the *Barberry* berries, or sitting on the leaf tree. Once they came down on lawn & spent some time picking up something & always keeping close together as if pals! They were quite tame & allowed approach to a couple of yards.

A ♀ (no doubt *V. vulgaris*) seen in front garden while I was watching the Waxwings.

23rd Nov. A very bright, cold, dry, sunny day, with moderate SW-W. wind, increasing in early evening to strong, after some further rain at night. The two Waxwings appeared most of the day in front garden & I took 3 photos. of them & the cat on the leaf tree at range of 12' to 15' ft. In afternoon I collected leaf-mould while Daisy was at N.E.P.C.A. annual meeting of local branch.

33

24th Nov. '61.

A cold wind (S.) day with melted-snow, like drizzle most of the forenoon & one heavy shower at 11.30 AM. The afternoon dry & brighter with wind dropping to light, after a dry, windy night. At 8.15 AM one Waxwing was sitting on the front gate of the ash tree near front gate, but after a rather severe squall it left & none seen again all day. To compensate for it, however, a number of the *Swallow* tribe was seen over the back garden at 12.45 noon & one seen at frequent intervals from that till about 2.15 P.M. I could not see its colour against the sky & once I thought its tail was "square" like that of a House Martin & once shortly forked like that of a young Swallow. I am not sure, therefore, to which species of the tribe it belonged - of course it is possible that more than one bird was about, but I don't think so. That there could have been any insects in the air on such a day seems at first incredible, but it seemed quite happy & strong on the wing. Nothing doing in garden all day!

25th Nov. After a dry, rather windy, moonlight, night, but no frost, a most brilliant sunny day with very cold W. wind & the feeling of snow, in spite of the sun. No sign of Waxwings or Swallows.

Spent morning & early afternoon clearing up sides of the new barn E of garage & burning what I cleared. Later we had a hours walk in woods. Received Income Tax assessment for year 1961-62 amounting to £15-10-0 & forwarded same to Bank to see if they thought this correct.

3rd Dec. 1961. After a hard frost at night, with $\frac{1}{4}$ " ice at bed on the tubes at greenhouse, we had a dull, calm day, cold, dry, with slight thaw in afternoon. I lived & brought, although frost-forecast open for tonight, it does not look like it to me now. 8 P.M. At 4 P.M. Daisy & I walked to Mr. Giff's house, & stayed for tea & for while afterwards with him & caught (Daisy) till 7.30.

4th Dec. The prominent frost was replaced by heavy rain from SE, which gradually cleared about 10.30, the wind dropped & later veered to SW & no more rain. Good day, light, & calm, & after rain out of the wind came down from the snow-covered top, it was about 10.30 & came into the house felt like a warm blanket. Glass fell until well into night & 5.30, wind veering more to SW & strong. We had a walk in afternoon in the plantation & gathered sticks.

5th Dec. A very cold day (with sun & snow showers) with strong to gale force NW wind at about 33 degrees F, after a similar night. Glass rising & steadily all day. Not much more snow on hills.

6th Dec. Cold, dry, & frosty, after a dry frosty night; wind strong & very cold - W-NW. Glass still rising!

7th Dec. After a very hard frost ($\frac{3}{4}$ " ice on tubes!) a fine & calm forenoon, with much sun, but a sudden rise of temperature & sudden drop of the barograph heralded a change & by 5 P.M. it was raining, & by 8 P.M. blowing a full gale from S or SE.

8th Dec. 1961. Really a terrible day of rain & SE gale, after a night of similar weather, which removed all signs of snow & frost from garden & lawn. Snowed on the tops of hills, & rain & wind all day. Still raining at 9 P.M. but wind now down considerably!

9th Dec. Rain & wind ceased during the night & we had a calm, mild, dry & mainly sunny day, clearing up in late afternoon, & a new depression is reported coming from SW. Daisy lifted her Dabbles!

10th Dec. Quite a nice mild, dry day after heavy rain during the night which must have nearly amounted to a cloud burst or before daylight floods. Ted came down Tullybrannigan Rd. & Shien Moyne Park & Shien Connell Avenue were flooded & debris left on foot path above Mr. Smylie's gate.

In afternoon we had walk in the Plantation going up to the green-hill & returning by Lindsay's Leap & ruins of Donald Lodge. During the walk we saw much signs of the damage done by last night's rain storm, & many of roads lay up, & in places deep in ditches of trees, sticks, gravel & mud. Wind backed SE & a gale with rain came on just after we got home at 3.45 P.M.

The reaction in garden which has followed the rise in temperature following the frost on 5th-6th is remarkable:

Saxifraga in rockery are up & have white roses, *Anemone hepatica* after the usual flower, & the *Hamanche* in back garden in a real springing of flower. Honey bees seen on the *Salix*, now in full flower. *Erica carnea* well out.

Also first flower on *Lychnis viscaria* (from G. Linn, seed, several years ago!).

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11th Dec. 1961. After a wild night with severe S.W. gale & occasional heavy rain, we had a dry day, but the gale did not die down till late in afternoon. It was mild, but not quite so mild as the last few days. Our bush of *Geranium* sp. *fragrans* ("Barbours Brown"), which had withstood recent gales very well, is almost twisted out of the ground so that I had to cut it down to a couple of feet high. It was in full bloom & has been so for several weeks. I don't think any other serious damage was done by the storm, which is strange. In afternoon we collected leaf-mould in Downland Lo. wood, as usual.

12th Dec. Another mild & sunny day spoiled by a strong gusty S.W. wind, after some rain at night. Showers seen inland, but none fell here. Collected sticks in afternoon & did some clearing up in forenoon.

13th Dec. Very mild & damp, with light fine drizzle at times from south - calm for most of the day, but wind veered NW & blew strongly in evening & glaze rose sharply after a fall (with rain) during the night. "Pinned to spur" the pear & apple cordons in forenoon. Walked in plantation later.

14th Dec. After a dry stormy night & almost just before dawn, a misty, cloudy, mild & calm day, but wind backed to SE in afternoon & a ridge passed & wind increased to gale by 9 PM.

In forenoon I cleared bank of the turn along Cochrans & burnt cleanings. In afternoon we had walk in & collected sticks in plantation. Posted order for 22 plants to Hillier (Winchester) for delivery after Xmas.

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15th Dec. 1961. The 78th birthday!
Gale continued & all hills covered by the day, but mild & dry during daylight. Dripping day & not fine flowers on the large *Hydrangea* which has begun to produce flowers for the last two months. Collected leaf-mould in afternoon.

16th Dec. A very nice winter's day, but a SE-SW gale forced mild & calm on St. Bonard & so we had little sun, but otherwise mild & dry after a dry & calm night. In forenoon I prepared 3 ponds in back garden for *Shorthorn* by running soil & filling cavity with leaf-mould which I started to collect from the small pond in the "Huggie" which it had occupied at the expense of all the other plants except the *Lilac*. In afternoon we had walk & collected sticks!

17th Dec. Sunday. Another nice winter's day, here spoiled by east wind & thick English smoke haze along coast, though further inland sun shown most of the day, we had only one minute sun as it sank behind Thorne at 1 PM (44°). In afternoon we had walk in the plantation.

18th Dec. After a clear night & slight ground frost we have had a lovely winter's day, with no wind & so no smoke haze. Our larger *Amor. Bactris* opened its first flower today, while the small still bears many flowers, although its first flower opened on

19th Dec. A keen white frost in early part of night & up till at least 3 AM, when all was white, but at 4.30 AM all this had gone, but why? A bright, calm, dry, sunny day followed, with barograph now standing at 30.75 & up to 30.8 by tea time, by which time a light E. breeze had sprung up. At 9 PM the sky was clear & a nearly full moon but not I think freezing & I went to post a letter to Mr. Goldie. Had walk & collected sticks in afternoon.

no.

20th Dec. 1961.

Another dry & calm day, after slight frost about dawn which continued after sunrise, but about 10 AM was & E of Shire & wind, and off the sun over Newcastle.

In forenoon I cut down dead *Salix caprea*, & in afternoon we collected sticks in the woods.

21st Dec. After a clear, frosty night, cloud came before dawn & a thaw started before 9 AM, & a dull, calm, about mild day followed. In forenoon I sawed & chopped sticks & logs & in afternoon I collected sticks in the woods.

George & family arrived to stay a few days at 5.30 PM.

22nd Dec. A dull, dry, day, with E-NE wind & falling glass, after a similar night & no frost. With help of George & his car we brought down another 8 or 9 rocks for the garden.

23rd Dec. Dry, very cold & strong E wind, but no frost (as far as the woods).

24th Dec. Had path in Tollymore Park a bit & all with wind & no frost.

25th Dec. Xmas Day. A bright cold sunny day with little or no (E.) wind, after quite a hard black frost. George & family left after dinner to go on for a few days to Margaret's mother, Mrs. Dodder, at Ballyronney. Having I had a walk in Donnell's plantation.

26th Dec. Another dry cold day with NE wind, after a cold dry night with little or no frost, although much so cold as yesterday owing to clouds over the hills & down. In afternoon Harry & I had walk in the woods.

27th Dec. 1961. Dry, cold & calm, but no frost last night & considerable rain during the day.

28th Dec. A lovely winter forenoon after a frosty night, calm, but a S-SE wind rose in afternoon & some snow fell in the hills, but only a few flakes here. Snow promised two days ago is now far east from N. Ireland, but it is plain in almost falling. Heavy snow - part of Scotland & the last few days, & very much frost - part of England.

29th Dec. After a light frost & calm night, a dull, calm, dry, day, but the promised rain, not yet fallen here. Heavy snow fell later & before bedtime.

30th Dec. After a calm night continued to find snow deep over everything, having fallen without wind & from 4 to 6 inches deep. The day remained almost windless, with much blue sky to W & NW but we had only a few moment's weak sunshine, during which I took two photos, one of back garden & the other of St. George's for tall day, at 1.30 PM. No real thaw all day & snow was a powder at 2 PM. When I went out to shake snow off some of the shrubs, *Fieldfare* numerous in garden.

31st Dec. 1961. After a very severe frost which froze the two small oaks in greenhouse (as they are in spite of proximity to the small oil lamp) & the pipes & pan of W.C. in garage, & formed beautiful fern-like designs on my bedroom window, we had a clear, cold, bright, sunny day (though a light N-NW breeze blew in afternoon), but no sign of a thaw. As promised some tonight I saw that the snow was in greenhouse as well as the small lamp & so and so, 1961.

1962.

12th January 1962.

After a frosty & calm night we had a sunny day & a slight thaw occurred, but frost again came in late afternoon.

2nd Jan - Similar to yesterday but with more considerable snow. Snow & calm after frost at night.

3rd Jan - Entirely cloudy, calm & dry after only a very slight frost during night. At 10 AM, at 8 AM & 10 AM, continued but at 12 AM & 1 PM. Wind very light from SW-W. In evening, wrote Keeper of Zoology in B. Mus. to offer my services as a collector on condition I have no work here for a week to take material notes & take back the collection to B. M.

4th Jan. After a less cold night (1° in frost) the thaw continued & only a little more snow left at foot of back garden. On hill very little snow below 1700 ft on St. David. Day with sun & light wind. This afternoon on returning from our walk in the woods we saw one great Redwing of the winter, though Johnnie McHenry brought a dead one to me for identification on 2nd Jan. It was found dead in field behind Taggart's woodshed by one of the men. The Fieldfares which were in garden on 30th Dec. & following days seem to have left us.

5th January 1962. After a cloudy night with strong SW wind & no frost, a moderate day with sun & clouds, with occasional light drizzle falling in the wind & falling glass. After 4 PM, after 1 PM. sky clear then returned flowering & I got 3 birds, the morning. Snow on hill & gone under ca. 2,000 ft.

6th Jan. After a slight frost about dawn, a mild day, with light drizzle falling in the wind & till fog in afternoon: wind about SW, but later on after SE and then gale day & chilly. Winter Aconite in rock garden with one flower ready to open & several others pushing through the ground.

7th Jan Sunday. A mild, rather damp day, with sun in forenoon, cloud & drizzle at times in afternoon, a gusty SW wind. Had walk in afternoon to woods above the Harbour & back. Visited two former stations for *Pringle's* *Leontideae* but failed to see any plants & saw none seen before, autumn of 1960.

8th Jan. After a mainly dull night & forenoon, sun with gusts of gale force from E-SW. rain about noon & glass fell abruptly till 6 PM. Then after a more gusty but short it turned level.

9th Jan. After a mainly stormy & wet night, we found the hills covered with more snow ca. 2,000 ft & a cold SW wind blowing. It remained dry till 3.30 PM. When a new trough from SW. arrived & rain commenced & glass started to fall once more.

10th Jan. After a clear stormy night, an equally clear sunrise, with level glass. Soon, however, about noon from SW, glass began to fall sharply & by 1 PM. rain commenced & wind rose. By 6 PM. we had very heavy rain & gusts from SW. of gale force (as forecast!) & glass had fallen to level since 1 PM.

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11th January 1962. A severe gale (SW-W) throughout night with heavy rain in early part, while glass dropped to 28.1 - almost off the chart! - but turned up about dawn & was very steeply all day, while sun shone & gale then & would moderate somewhat in afternoon & we went up into the plantation & gathered sticks. The wind & rain decreased. On 12th snow but a little. Still lay in the garden & above the English Rock.

12th January. Another wild day after a frost & wet night. Rain & cloud fell for most of the day, with sun on the hills above about 1700 ft. Wind not so severe as yesterday & glass did not fall quite so low as yesterday, but a very unpleasant day, except for one bright interval between 10.30 & 11.30 AM. First Snowdrops in rock garden with head bent over & ready to open on first mild day.

13th January. Another windy day with sleet showers, after a windy & mostly stormy night, but no frost. Wind W & increasing in evening to gale.

14th Jan Sunday. After a clear cold night, but no frost, we had an all sunny day with only light W wind, but wind increased once more in evening. In other words a very nice bright day, & a cold winter's day, & the best for some time.

15th Jan. A very wet day with southerly gale & heavy squalls of rain from before dawn till evening, with heavy fall in glass.

16th Jan. After a fine night & no frost, wind rose once more from S. & we had a snow shower over the hills between 8 & 9 AM, but not much here. After that we had a fine & sunny day, with wind strong towards evening. Cold.

425

17th Jan. 1962. A nice bright sunny day, but S.W. wind very strong & blustery, after strong wind & rain at night, but no frost. Only a very little snow left on Shinn Down (about 2000 ft) and grass & ferns with vegetation.

18th Jan. A beautiful sunny morning, nearly calm day after a dry night & no frost until 4 P.M. when clouds began to build & rain coming up from SW & wind increased to fresh & rain at 9 P.M. The first Snowdrops in rock garden with flowers open after an hour's sun - ferns & several flowers open on Lungwood (Pulmonaria) given to me by Mrs. M. Collier.

19th Jan. Another dry & sunny day, with rather strong SW. cold wind.

20th Jan. After slight rain during the night & similar sunny day with at times a chilly wind from SW, but really a beautiful day till sun went behind St. Oswald at 2.15 P.M.

21st Jan. A poor, cold, raw day, with strong to gale SW wind & showers (of rain on Shinn Down, but not on our moor).

One shower at 2.30 P.M. accompanied by large hail-stones & one flash of lightning followed at about 2 seconds by the thunder. Two flowers out at 12 noon on Lungwood by ash tree & stream in front garden & none quite a bush of Snowdrops out in rock garden. Limonysalobdella & Lithospermum "Heavenly Blue", Erica carnea var. montana in flower & Erica medeolensis with old flowers open, but not yet in flower. Last flower on the small Heavenly Blue now in flower, but a few still perfect on larger plant which began to flower much later.

43-60

25th Jan. Very mild & humid & many signs of spring growth
- garden & wood. *Stem Honey suckle* sprouting ^{at 25.}

2nd Jan. Rather a wild day with rain blowing in the strong S.W. wind but quite mild, till at 4 P.M. a heavy rain squall & falling temperature announced a sudden rise in glass & wind veered from S.W. to N.W. Wind continued strong to gale in squalls into the evening.

1st Feb. "no notes". 2nd Feb. Took "Empidonax hammondi" ♀ and ♂, 30, on window in house
probably out of house on ledge.

4th Feb. 1962. A windy day with strong gusts from SW. hill
fog & light rain or drizzle & falling glass, clearing in afternoon
as wind veered W. & temperature rose, but wind
remains strong. Sunday! Usual walk in woods in aft.

5th Feb. 1962. A very nice dry sunny day, but cold wind
from NW, strong in forenoon, decreasing & calm in afternoon.

In forenoon I cut both front & back lawns (with electric mower)
& then tidied up front plot in grass. In afternoon we collected
sticks in woods. Wrote H.W. Gargan in evening!

6th Feb. A mild day with light drizzle blowing in strong SW wind at
times, also a little sun. Forenoon: in evening wind rose & some
rain fell about 9 P.M. Working day drive in forenoon, collected
sticks in afternoon.

7th Feb. Cold with strong NW wind rising to gale in evening,
which lasted till after midnight. Some sun about midday, but a
torrential hail shower at 2 P.M., then dry. Took a photo of the
Camellia in front of house.

8th Feb. After a dry night & cold forenoon, with falling glass & the
temperature rose to give a dull but mild & pleasant afternoon, when
we collected cones below Bonard Lodge. Later I cut
grass in wiggly.

9th Feb. Mainly cloudy; cold gusty W. wind in forenoon, but
mild & calm in afternoon: sun, slight mist, drizzle on the
hill at times, but dry here. Dug old strawberry plot &
found roots of Anderson's forest hedge had reached the
upper path, i.e. 12 feet from the hedge. Later cleared up
edge of path round clump of whins in wiggly.

9.2.62 cont.

Both white & blue *Camellia* 'Kemp's' again with out / before previous flowers.
These bloomed about 10.30 in forenoon. Both purple *Camellia* & *Camellia* in
front garden by the house ready to open.

10th Feb. '62. Some hill fog & slight drizzle in early forenoon & to cold
showers at 5 P.M., otherwise a bright, cold day with considerable
sun about 2.15 p.m., but increasingly cold wind in afternoon.
Rhododendron *vilpinense* in flower in plot at SW angle of back garden, very
nearly in flower & in flower. Then *Camellia* *vilpinense* of *Saxifraga*
oppositifolia (from Bonard Lodge) with flowers open - one from
house & two from garden in rock garden.

11th Feb. After a dry night, a severe gale blew from SW W with
light rain at times & still blowing & glass still falling at 7 P.M.
Sunday! Had walk in woods in afternoon, but otherwise confined
to house. The promised frost did not materialize last night, but
W.H. Scotland has had more snow. It is now mild here!

12th Feb. Rain most of the day with W gale moderating in light, but increasing
again with heavy rain in evening - 5.1.9 P.M. *Abelophyllum distichum*
in flower on the border by the house path just W of the road.
Rhodod. vilpinense almost in flower in new plot.

13th Feb. We awoke after a mainly cold & wet night to find our hills
(but not St. Brook, or inland) lightly covered with snow. Snow to
100 ft., though some time ago snow was to about 1,000 ft. During
forenoon we had one rain shower about 11.30, otherwise we
had sun, with cold W wind. In afternoon from 4.15 to 5.15 we had a
heavy snow shower, some of which still lay till evening, wind dropped to
very light & arrival of the shower & first forecast for tonight.

14th Feb. 1962. More snow. Light after dark last night & lay from 1st to 2nd and deep by dawn over all the garden, but the day opened calm & bright & we had sun all day, with light but very cold northerly wind: although the ground was frozen the water in the tub. in greenhouse had up a floating cake of snow this morning.

Sax. Opp. from Ben Lanyon distinct in flower buds, part of *Lonicera periclymenum*. Collected in afternoon.

15th Feb. Rather a wild day, with gust of gale force from SW & heavy shower at 2 P.M. & light drizzle & blowing in the wind in forenoon. After the shower was in full before dawn & we had the usual cold in the plantation & collected in the garden. Quite mild & sunny till gone home at 3.30 p.m. on St. Andrew. But some still in the garden above & E. of the Explanade. The usual cold wind all day by, but fog.

16th Feb. After severe gale all night & severe gale all day with wind veering from SW to NW & temperature falling. Many more trees down in Drinnahilly plantation & trees off roofs round about. Shrub in garden badly mangled & some broken (e.g. *Laurustinus*). Flower buds broken in *Rhod.* *cylindrica* & *R. prinos* ^{about} in flower in plot near the house & garage & hedge.

17th Feb. Wind dropped & we had a calm & dry night followed by a calm & sunny day, cold at first, becoming milder, with hill fog & very slight drizzle at times in afternoon as "a weak warm front" approaches from NW. ^{Remains rather unsettled from} ^{Ad in foot garden & hot} ^{both in morning.}

18th Feb. 1962. A dull, calm, partly mild day after a dry night & some hill fog & slight fine drizzle in forenoon. *Sax. flava* *apiculata* with first few flowers open in rock garden, though the Snowdon Sea. *oppositifolia* buds at edge of bed. Some *Scilla* *Sax.* *off.* now in flower & some of the *Berberis* *off.* but none from Snowdon yet out. When Daisy returned from school she came down back garden where I was working & saw into a small Rose at a yellow *Colony*, & stayed there long enough to see the snow garden to see it: it was a *Bombus lucorum* ♀ of maximum size! There had been no sun to catch it today, so I must assume it was not its first appearance after hibernation.

In afternoon we walked to Tollymore Park via Boreland & up Riggie's Glen, round the E. side & down by the quarry - 2.15 till 6.30 P.M. There were few trees down there we had expected after that week's storm & nothing to see from with the state of affairs in the Drinnahilly plantation.

19th Feb. A very nice calm day after a dry night, with some hill sun about midday, but cloudy early & later.

Discussed the future of the rose house with Mr. Blair on its future threatened by Tagger's latest "development" of stone. He said he intended to speak to Tagger & would report the result. Later put stop of wire netting along part of bedstone fence to black & put more net trees & after dinner had bonfire & did some weeding, etc. Two minute patches of snow on NE slope of Donard at about 2600 ft yesterday - none in gullies - but hill fog did prevent today.

The *Bombus lucorum* not seen today though a much milder day than yesterday & honey bees at *Melissa* flowers.

20th Feb. 1962. After a calm, dry, night, a calm, cloudy, day & mild day. Spent forenoon doing various jobs around front-lawn where the lawn is now quite brown after recent application of tar oil wash & gave the area to which the wash was first applied given a dose of 10.50 lawn fertilizer. In afternoon dug part of path beside Anderson's gravel ledge to check its roots & later a channel on side of the wall was in the masonry. Rhododendron pruned in front border with its first flowers open. Chionodoxa almost in flower.

In evening I wrote to Mrs. Robertson of Laven Hotel to ask her to book a room for us from Wed. 20th June until the evening of Wed. 6th July, when we propose going N. to Fort William before returning home on Thursday night, 10th July.

21st Feb. A foggy day, after a foggy night, with light E breeze at times. Only for a few minutes about 4 P.M. did we see the upper sky: otherwise the fog was thick down to sea level. Spent day clearing the raspberries & other plants along the wall between W. of front lawn in back garden.

22nd Feb. A very bright & cold day, mainly sunny, but with frost & very cold E. wind till sunset, after a dry rather windy night. Glass very high & up to 30.7 at midday, due to anticyclone over southern Scandinavia. Finished photo. film & will post tomorrow. Had bonfire in forenoon & in later afternoon did odd work, in early afternoon saw S. Gibson & had first of sea view injections for the year. Photos taken not in sunlight at 30th sec. 100 f.p.s.

23rd Feb. 1962. A dull, cold, & dry day, with NE wind.

24th Feb. Similar to yesterday but only a very light NE breeze. Sun out all the day. I cut yesterday along the sides of the back-lawn the way.

25th Feb. Sunday. Another dull & cold day with NE wind & a few snowflakes. I went to a few of the plants to get a bit of fresh snow on them. I went to about 150 ft & patches below that to about 1,000 ft. Some of the plants were with a few flowers open, but the Swedish Sax. oppositifolia still holding back. Had a walk in the plantation in afternoon.

26th Feb. Snow showers & strong NE wind all day, but no snow lay long down here. Got box of books ready to send to F. J. Perkins. Collected pine cones in afternoon. Posted 27.2.62.

27th Another day of cold NE winds & snow showers, but snow lay here & afternoon much better than forenoon & forecast better also. Heard from Ben Laven. Hotel that our room had been booked for us from 20th June till 6th July. Many larches, now with little green sprouts.

28th Feb. After a dry & calm night, snow started to fall before dawn & continued off & on till about noon, but did not lay long here. The afternoon was dry & brighter & wind light NE backing N.

1st March 62. After a dry calm night, a dull, dry, rather cold day with light NW-N breeze, but no sun & showers.

2nd March. A beautiful day, sunny but cold forenoon, but then snow showers later, which were a fall almost without wind & a shower at 6 P.M. lay at first in small clumps at dusk.

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3rd March 1962. A brilliant sunny day after a cold night but no real frost, though last evening snow still lying. S.P. Vance arrived - afternoon to spend week in Newcastle & take my evening *Pisidia* back to the B. Museum.

4th March. After a very severe frost, then a squall in greenhouse. Let the ice on the (Lands Lamp) & took thick ice, as had a glorious sunny day, with real warm sun till 4 P.M. then frost again. In afternoon Vance & I walked through the wood to ride above the Meadows, then back & up to the Ice House on Glen River, where saw the new forestry fence enclosing another 100 acres of the moor from path by Glen River to foot of Shiers on Monday. During rest of day we discussed *Pisidia* & way of dealing with my material. Sunday.

5th March. Both days were very cold but entirely sunny after very severe frost at night & a squall of rain in greenhouse. Wind light, variable or nil, but turned SE on eve of 6th, when an approaching change from north was obvious.

7th March. Gale from SE all day, steady, but dry & very cold. Sleet in conditions.

8th March. Gale continued all night, but no frost. Slight drizzle of sleet or rain all day & wind fell & temperature probably rose; entirely cloudy with smoke-haze & hill fog when no ft. all day.

9th March 1962. Much milder but wind from north kept it still SE & bringing inland a mixture of smoke haze & hill fog, with often a thick drizzle, clearing at times to a SE breeze freshened the SE off the land. In garden *Scutellaria jankowskii* (Thunb.) with first yellow open & *Saxifraga oppositifolia* opening its buds. In afternoon S.P. Vance, leaving & I walked via Bangorford Rd. to The Priests Bridge & home in afternoon, but hill fog hid everything above 500 feet. Finished packing up my coll. of *Pisidia* & literature which I have given Vance & which he will take back to London tomorrow - the shells to B.M., the literature for his own use.

10th March. Balm & foggy with drizzle or heavy rain all day. S.P. Vance left by 1.40 pm. to catch plane at Belfast home to London & Maidenhead, taking with all the *Pisidia* & some of the literature.

11th March. Sunday. A wretched day of smoke-haze, hill-fog, drizzle & rain (with melted snow); cold with E. light wind.

12th March. During the night wind went to N. & cleared away all the mist & drizzle, so that we had a very sunny but cold day, with light N. wind & rising glass, but a very streaky sky at sunset foretelling more bad weather. After although "no change & frost at night, with snow showers" forecast at 6 P.M. for next few days.

13th March. After a moderate frost, a beautiful, but cold, sunny day, with very light pearly snow showers.

14th March 1962. Similar to yesterday, i.e. sun, cloud, little or no wind, but no snow shown here, after frosty night.
 15th March. After a very slight frost, the day opened with a rising & bitter SE wind, as a cold front approached from SW. Frost remained at 12.30 noon, with snow on hills, & continued for the rest of the day, the snow lying on fields below Burnapland, with under snow. In forenoon I took clumps of *Sax. aizoides* & *Chimaphila* to Mr. Caldwell & received in exchange a white & a yellow form of same group of Saxifrage — possibly white *barnebyana* & a yellow specimen near same. Some other bits of flowers out.

16th March. That is, had a day as yesterday, but very windy though wind more S. & not so strong, but less continuous & temperature not so low & some clearing though mostly cloud at times. In afternoon glass rising all day & since 10 AM last night.

17th March. A dry day & after a dull morning we had a more sunny afternoon, but cold with light E-SE wind. The first yellow Primrose beneath the *Agrostis* pointed by the burn out today, although the mouse hybrid seedlings have been in flower for a long time, their other parent apparently having been a *Polyanthus*!

18th March. A very nice sunny & calm day, though rather hazy, after a very hard & very white frost, with surface of soil raised up a thin veneer of water in greenhouses covered in the ice (but not the species!) though lamp lit. Sunday.

19th March 1962. A very nice sunny Spring day with light variable wind, but still cold out of sun. I was able to do some weeding of paths & scuffled the new plot next where *Veronica virginica* is flower, near the burn & *V. odorata* now with many flowers. *Chimaphila* now in full flower, as well as *Gephura blagayana* & the purple *Thymus* which I moved from front to back garden with some flowers & some in bud. In afternoon I saw a large quantity of snow on top of hills. The *Campanula* *Sax.* *officinalis* now out but not in good condition of flowers & some of them. The white *Agrostis* from Hong Kong by the burn & the white ones with spots of purple on the leaves. *Veronica virginica* still in flower. 20th March. Another day.

20th March. Another very nice sunny day, after a mild & misty night & early forenoon: the sun really hot & wind light & variable. My second bumble bee (*B. lucorum*?) seen on flowers of *Gephura blagayana* at 2.30 P.M. in warm sun. Spent most of day clearing up the rest of the island of the first deep in the new burn & burnt the refuse. Later cleared up some paths.

21st March. Same as yesterday, but not quite so warm after a very slight frost at night. Wind very light, westerly. Spent most of day clearing up ditch by the burn along Burn N. Colman's & put more nettles up & will build up a platform along the burn on which to plant & hedge of shrubs.

22nd March. Yet another dry, cold, & calm & sunny day. Transplanted to new bank N. of the burn (made yesterday) a rooted cutting of *Hydrangea* & one of *Spindle Tree* taken from the stream in hedge W. of the Cemetery.

58 23.3.62 cont.

on Tollymore Park Road 2 years ago & which trees & hedge have recently been removed on the road being widened as far as the Tollymore Park Burn. Yesterday I had a letter from Mr. Dabney (Dunfermline) telling me that Mr. Dabney is in hospital, where another letter received today tells me of his death five hours after he arrived at the hospital.

24th March. A dry & cloudy day, calm till evening when a southerly draught replaced the wind to W. & S. winds. Cold, with only a few brief glimpses of sun in forenoon but green in evening & did several other jobs in garden.

25th March. After a cloudy night & SW gale with sleet or rain from dawn till 11 A.M., then bright with sun & showers & evening wind veering somewhat west.

Mr. Harris, John & Jennifer, called in afternoon & left for home at 5.30. We discussed procedures in preparation of a list of bird samples.

26th March. A very nice sunny day, milder than of late, & though W. wind rather strong in forenoon this fell in afternoon. Got tickets for journey to & from Glasgow & 2 berth cabin for nights of 19th, 20th June & 10th, 11th July: £12.4.0.

Spent most of day removing sludge from the Liris pond & the wee burn & pruned *Erica striata*, which had shaded its neighbours.

27th March. Another dry & warm sunny day, but in forenoon W. wind rather strong & cold. Took more sludge from the wee burn & other jobs in back garden. Got 6th last iron injection for season from Dr. Gibson.

28th March 1962. After a dull forenoon & slight frost ⁵² during the night, rain commenced at 1.15 P.M. & soon turned to sleet with strong SE wind & cold rain. It continued all day but cleared somewhat about 7 P.M. when we could see that the foothills were once more covered down to at least 700 ft.

29th March. Frost having fallen for over 24 hours we were in centre of large depression, calm, almost warm, with snow till fog & some rain, after heavy rain at night. Frost turned up at 5 P.M. & cold rain was resumed. In forenoon much fine frost in sun & cold in shade in evening.

30th March. A cold bright sunny day with a cold W. wind which died away in evening, after a cold stormy night but no frost, with a few light skiffs of prickly snow on hill. Received word from Hillier's (Winchester) that the plants I had ordered - 12 plants of *Desmodium* had been dispatched on 28th, although I had written Mr. H.G. Hillier on 12th March asking him to postpone completing the order until after August 1st next.

31st March. Another day with very cold W. NW wind after light frost but much warmer in forenoon - showers of rain & sleet in afternoon, then clear in evening once more.

1st April. A cold sunny day with hill showers, strong gusty W. wind & bright sunny intervals. 'Sun day'! In afternoon we had a walk in the plantations on Dinnally.

2nd April. A really dreadful day of rain & high S. SW wind from dawn till dusk, but not so cold though sleet at times. Went from Hillier's, arrived at 11.30 A.M., but all ordered to us to unpack & try to make them comfortable in the garage.

60- 3rd April 1962. A lovely spring day, though afternoon was
+ cloudy & with a few light shafts of rain or light hail: almost
calm & with much warm sun in forenoon. Many bumble bees
heard but none identified. Got all the shrubs received from
Hillier's on Monday (yesterday!), as per list, mostly in the
new plot at NW corner of back garden near the uthens.
Sudden growth evident after yesterday's rain & today's
sun & the following plants opening, flowers or already
open! - *Sol. danielae* (3 flowers), *Rhododendron vacillans*,
Rhodo. tosa, *Rhodo. intricatum*.

Took 1st photo on new film - St. Bernard from "waggy" with snow on it.
4th April. After a dry night, sleet rain & finally wet snow set
in just before 8 AM. & continued with at times strong S-EW wind
till 1.30 P.M., by which time the hills above 600 ft. were white
with fresh snow, but none lay below that height & as it was
not cold the wet snow was virtually gone by tea time.

From 2 P.M. onwards we had sun & clouds, with showers &
decreasing wind, which veered from SW to NW. Barometer
fell slowly till 6 P.M. & then rose slowly.

5th April. A cold showery day, but with much warm sun;
wind NW. fresh in early part, dying down in evening.

6th April. After a fine night, a mainly dry & sunny day, but very
biting cold W. wind till afternoon, when milder air came
& wind dropped to calm. drizzle commenced at 5 P.M. &
continued all evening.

7th April 1962. A real spring day, for plants, with all day sun, (61)
in the strong SW wind all forenoon, but wind fell late in afternoon &
led a bonfire & we had a fine calm evening. The row of Japanese dwarf
agave in front border in Tullybrannigan Road almost out of the
hedges, in back garden near Anderson's house (Japanese agave)
now with many flowers, though the whole plot is covered & mostly dark.

8th April. A nice bright dry day, with much sun, but cold NW wind,
after some light rain showers during the night, which lay down
to 500 ft., but mainly melted after sunrise. Sunday.

In afternoon we walked to Luncarty Road, along the Shepherd's
field to the sheep fold, where we were met by Mr. James
Trought (owner of Strathmore Training College, Luncarty).

We went to St. Edmund's Roman Jesuit school with Mrs.
John Stoddart (group of students, led by Mr. John Stoddart,
taken to school, had Harding & other ^{Blackthorn in flower by}
^{Tullybrannigan Burn below}
^{mountain}

9th April. A cold showery day, with fresh W-NW wind
& continuous drizzle or rain from 12 noon till 2.30 P.M.,
sunny from then till then & fine intervals, late, but several
heavy showers. In forenoon I planted
five small clumps of *Sax. oppositifolia* along NE. side
of the new plot near the uthens, in alphabetical order, from
(1) *Baccharis*, (2) *L.D.*, (3) *reflexa*, (4) *L.E.*; (5) *muscosa*, it, on
the Tullybrannigan, Co. W.G. (4) Scotland: Ben Lomond area;
& (5) *Snowdonia*, N. Wales. See sketch of plot.

10th April. Not so cold as yesterday, perhaps because
W. wind was light, but some drizzle between 1 & 3 P.M. after a
dull dry night. Weeding & put in some *Agave* seedlings &
the wee burn opposite the 2nd band from back window, broken off 10.6

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11th April '62. After a fine night & some drizzle in forenoon we had a very nice sunny afternoon which Daisy & I spent at Slieve House talking to the students from Stranmillis & Belfast. Jack will be a box containing the Local Councils Book & Creeting, Social Work & Ladybirds.

12th April. A very bright sunny day, warm in sun in forenoon with light N. breeze, but in afternoon wind turned east (on shore) & it was quite cold & looked like just later with some fog. I forgot yesterday to record *Bombus jonellus* - a very small ♀! - which in this order visited flowers of a *Platanus*, *Erica* variegata, back to *Platanus*, then the *Erica* variegata, & finally *Soldanella* before flying off.

13th April. An extremely sunny day from dawn till dusk after a white frost with gentle but keen E. breeze.

In afternoon Mr. Caldwell drove us to Daisy's Hall nursery at Newry where I bought the following new plants: *Antennaria* Rose, *Hebe*, the old double mauve *Primula*, *Primula* variegata, *Hebe* collina, *Geranium* foveolatum, a small *Delphinium* & *Erica* (bellina) var. *auriculata*, most of which I will plant in the new plot near the station, but the *Hebe* on bank just N. of the road by the Burn Path & below the *Abies* foliage. Took 2 photos on way home at Manannan, back to between Warrenpoint & Ballyvaughan, Kesh, with filler on first ♂ of bee *Andrena* gurganensis seen in garden about noon. Lowered *Camellia* & 2 *Rhododendrons* with old curtains to keep off frost.

14th April '62. Similar to yesterday with chilly E. breeze & sun all day, after a rainy night, but no frost. Got front lawn - forenoon. In afternoon Daisy & I planted 2 rows of potatoes in uppermost plot as follows: -

1	Strawberries	2	8-10	NB. 6 barrowful of compost put into each trench, then the potatoes, root cut grass from mow & then fertilizer & rows mulched up. Last day 2/8/62.
1	Home Guard 7	8	10	
2	Walter's Chieftain 8	8	10	
3	Ballydoon 7	8	10	
4	" 4 X 2 1/2" 10	8	10	Good clean crop, but very dry!
	Strawberries	2	8-10	

I mowed & full sun took 2 photos in back garden of *Camellia* & *Rhododendron* - 1st in sun & 2nd in shade.

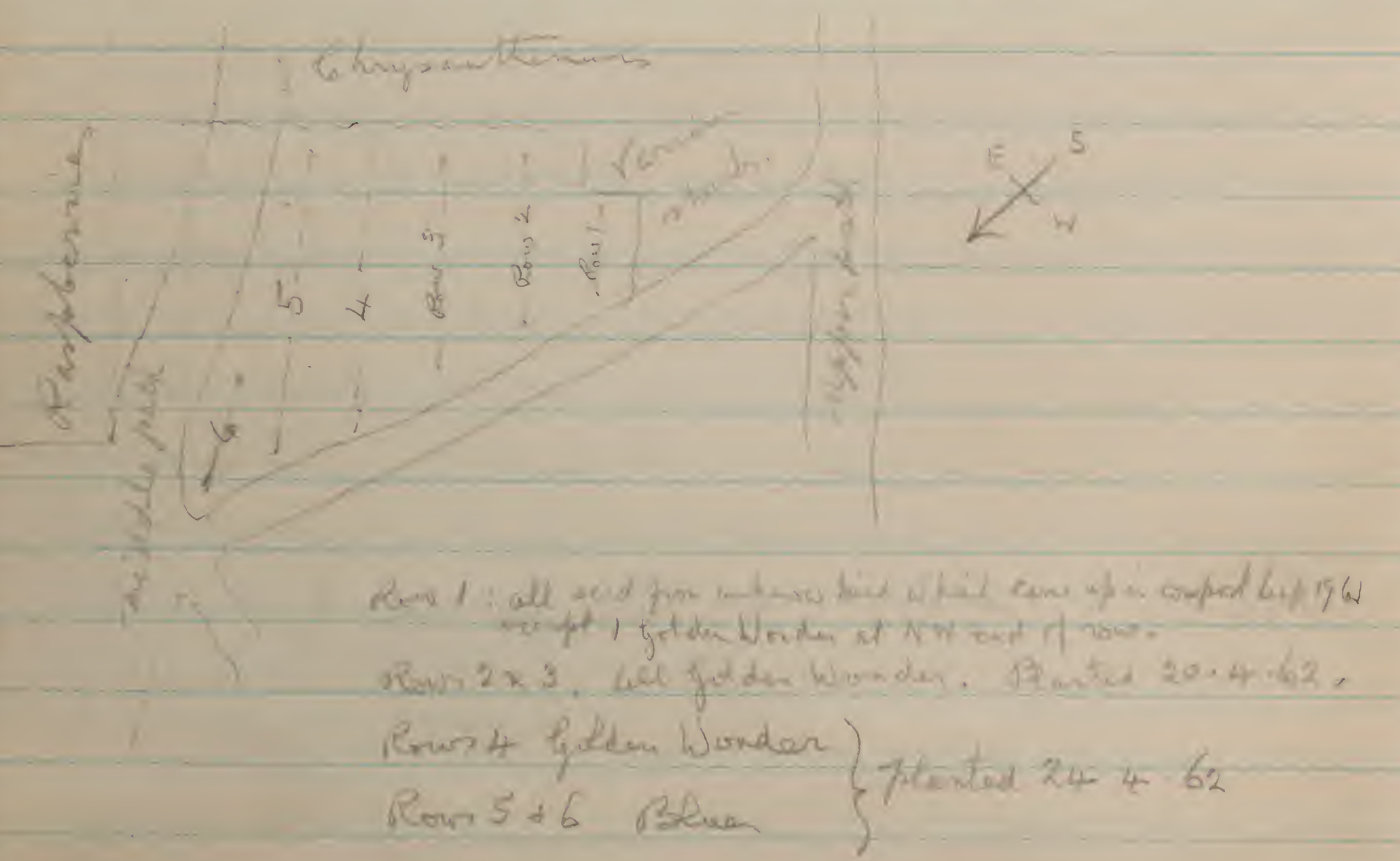
Barer clandestina & *B. montana* both nodding in flower today & possibly yesterday.

15th April [Sunday] A very similar day to last two, but a few clouds around & after midday. The flowers on *Brickellia* (after I thought it had just flowered!).

In afternoon we walked to Tollymore Park, via Loughmore Gate & then round the E. Drive via the quarry & home by Reggie's Gate. Had cup of aft-tee & bit of old woodland by the "Stone to the mountain" & then took 3 photos at 1.35 of a wood - one of the woodland & 2 of the interior in rather wet sun with considerable shade & without filler. Everything very backward & *Vaccinium* not showing flower & no *Hymenophyllum* seen. On way home Daisy & I saw first CHIFF-CHAFF in scrub opposite gate of Loughmore Lodge - the usual place!

20th April 1962. A rather nice day except for occasional burst of the cold E breeze, which on meeting the milder southerly wind up above formed dense hill-fog & some slight drizzle. Otherwise day & after-noon & mild till evening when about 7 P.M. a mist set in & continued till dark. Good Friday. Received by post the 3 delayed plants of *Franklinia procumbens* from Mrs. Hillier of Winchester & planted them in the near S.W. plot near the whins. Three very nice clumps of the plant with numerous underground creeping shoots & very different from the miserable plant received last year & which did not live. These look as if the plant might become a miniature.

In forenoon I made up of central part of main plot where Dracopis had been sown last year & in afternoon we planted three rows of potatoes in eastern portion of main plot where Dracopis had also been sown & other veg. last year, as follows:



21st April 62. Wind mainly light & E. but alternating with SW which was direction of the clouds. Then SW. warm & dry with some sun when E. wind but fog & very light drizzle. George & family home for the day. Left for home at 6.30 P.M. Evening after rain. In afternoon I dug up central part of main plot & left of house & put in potatoes in the middle part. Otherwise work confined to weeding. George brought a couple of glass from his old greenhouse for which we kept made a couple of cold frames. He put away the glass in house, & took.

22nd April. Easter Sunday. After a calm & misty night we had thick sea-fog brought in by light E breeze till midday & but after the sun came out. In afternoon we walked up to Green Hill & across to Brimblebury (from E. to W.) & so home. Took off tea with us & sat in very warm room in parlour. In of new road - 1/2 mile SW of the house (part, except of water and tunnel). Saw a lot of *Polium* on way up but none in the *Hops* & a couple of *Chamae*, but being there too late & Willow Warbler. Many beyond all range of my old eye.

In forenoon I watched a ♀ *Vespa rufa* feeding on caterpillars of the dwarf *Salix myrsinites* in back garden. Took 2 photos. of *Rhodod. Elzeleti* the Hillier's plant of which got last year in row in very beautiful flower. The Brandon Mt. *Armeria* in rock garden has had a flower open for several days & there has been great growth in garden since last 4.5.61. The little *Regelia* in front border, & many other plants with flowers or nearly so.

23rd April Easter Monday. A very nice day with much hot sun after a dry calm night, but still with chilly E. breeze off the sea. In forenoon I cut both front & back lawns & in afternoon I continued the planting of the potatoes in E part of main plot & finished same with 4th row Golden Wonder & 5th in Blue. Then started to plant the middle part with Blues & will finish tomorrow.

68 24th April 1962. A most perfect summer day with uncomfortably hot sun in late afternoon, while we finished the planting of the potato crop for the year in centre part of main plot. All boxes except the one divided in centre by two old Brussels Sprouts + the eastern part of the lowest row E. of the "crops": these two exceptions planted with Golden Wonder. The W. part of the lowest row planted with 3 tubers of which the west three were a large potato from the shop: the other two are now sprouted seed. During the day I saw at least six wasps & three identified were all *V. rufa* ♀♀. Several seen at flowers of the new *Campanula* next Anderson's fence in top border. *Silene acaulis* from *Barrenage* (M. Moor!) + *Bac. Bullen* with white flowers open. Many plants in *Epilobium* corner.

25th April. Similar to yesterday! Very hot sun all day, with cool E. breeze in afternoon. *Cerastium alpinum* from W. border in flower. But grass paths a bit waxy, see *V. rufa* ♀♀ & one *V. rufa* ♀, & needed paths & had before.

26th April. Entirely sunny after a misty morning: sun very hot in afternoon & rain badly needed & some small plants. M. Baldock (seemingly) came in forenoon & I gave him many seedlings & 2nd for his garden. The first *Bombus agrorum* ♀ seen in evening on *Linum catharticum*. White-washed greenhouse glass.

27th April. Same as yesterday, all sunny, after slight white frost & some cold & cold E. breeze in early morning. Finished whitewashing greenhouse, had bonfire & had first border. *Bombus pratorum* ♀ on *Linum catharticum*, *B. agrorum* ♀ on *Linum catharticum* & evening.

28th April. Similar! Hot sun & no cloud all day, but some light chilly E. breeze off sea till late afternoon, then absolutely still, after being done at night but not quite fresh. Spent most of forenoon weeding, also there were back & front, & chiefly looking for seedlings of *Polium* in the hedge. First flower on *Campanula* in evening. In afternoon saw some about 1000 other *Campanula* of change from the one seen, from 1000 to 1000, & put some on woodstock lamp. At 5 PM saw the first butterfly of year seen on a *Spotted Wood* as a first of *John* (small!) & first *Helicon* *lucina* ♀. On the pond in waxy I saw for the first time a specimen of one of the large Pond Skaters (*Zygoptera* sp.).

29th April. Sunday! Similar; not a cloud all day, but the same light & cold E. breeze falling towards evening, after another slight white frost, but apparently no damage done.

30th April. Same as yesterday! Not a cloud all day & rather strong E. breeze in afternoon (but not so cold!) when M. Baldock (1) drove us to the golf links & we walked along the dunes to N end of the links & back to car at 5.15 PM. Tried sweeping in several sheltered places but only 3 spp. of beetles & some *Dips* & *Isid.* Not many *Campanula* seen! One small beetle abundant on flowers of *gorse*! =
One *Aphodius* + one small *Staph.* also taken =

Lots of *Erophila verna*, *Cerastium* & *Lygus campestris* in flower & several plants of *Vicia lutea* with flowers open. A pair of Starlings, 4 Ravens (investigating ruins of *plum* in garden?) seen & being heard a Lark. *Bombus lapidarius* ♀ seen in forenoon on nothing of *Salix* *phliculata* in road garden. T.T.O. →

70 30.4 62, count.

4th May. After a dry mist, calm night, clouds formed over S. Sea. Wind and after breakfast we had a heavy shower of rain about 10.30 AM. lasting half an hour, though out to west we could see blue sky. After the rain the garden looked much refreshed & by evening growth was obvious on most plants. Potatoes in upper plot planted on 14th & 16th April showing in some of the rows, but not all. In forenoon discussed with Mr. Caldwell (1) a letter in "Newcastle Observer" by a Mr. Gibson, 2 St. Shannagh Park, suggesting a Field Club for Newcastle district & decided to call on him in evening, which we did & had a pleasant chat: he is horticultural inspector for South Down & seems a very nice young chap - married with 2 children.

In evening we had 3 visitors, before I went to see Mr. Gibson
namely Bob Perkins & Miss Knight of Stearns' T. College
& Michael Morrison home on leave from Kenya (Africa).

72 / 5.5.62, cont.

7.5.62, cont

$$B_2 + \text{Hemipteros} =$$

78 - 23rd May '62.

Another chilly day, except when we were out, with slight showers in forenoon & heavy thunder showers in afternoon. Went both first & last time in forenoon; dinner by Mr. Baldwell to Ranscombe, Whitfield, to see the lyalopes & black & red & grey, where both are in place. Compared with our visit to the lyalopes on 28.5.1960 the lyalopes have not grown at all since then.

24th May. A fine breezy day with cool N.-NW wind & showers, & only one heavy shower of which we got a fine winter specimen.

Left in Mr. Baldwell's car (Mr. & Mrs. Baldwell & Daisy & myself) at 10.30 & drove to the uppermost bridge over the Glen River - a gulch below the stile & the Fox House, & then walked up path on W. side of Glen River till below the English Rock, where crossed the river & went up to the corner of the cliff, but back, & went round southward on path below the cliff where the Ravens are in a nesting colony, but no young seen on the occasion. The lyalopes were brown back, while Mr. Baldwell & I went on & saw the single known track of Juniper & the vertical series of Bleak fern, but did not see Salix herbacea which I have known in one horizontal track near the Bleak fern. Possibly it is late growing this year. We then descended a zone of Vaccinium myrtillus to the river, passing a Sphagnum swamp fed by a sub-surface stream & found a full of Saxi. stolon. We then crossed the river & rejoined the track, & all back to car at 1.30. Collected a few Laminaria for Mr. Fitzgerald. On way out took a Tentaculites & Ammonites on way home. took 1 Ammonites in (not kept!) was when left car.

took a 4 Pinguicula vulgaris, at 2.30, by 4. Glen River, below stile & English Rock.

25th May '62. Similar to yesterday, but quite dry, with less N. breeze, & much hot sun. First watering at 6.10 P.M. Continued work at the new house opposite Mr. Dawkins' (in future Richmond) garden & his house. Mounded 7 rows of potatoes next to post heap in after-noon.

26th May. Similar to yesterday, day, sunny, with cold NE breeze. Repaired the old lyalope - London for 30 years! Cut edges of path & paths in Wiggly & sprayed Barren along stream in front garden with Jug's fluid (1 teaspoonful to a gallon) to those newly colonized (probably) by Aphids.

27th May. After a near miss of frost during a clear night, cloud formed from NE. at 8 A.M. & continued to build down to 6 P.M. Cold & dry with little NE breeze. Left home in bike, alone, at 10.30 A.M. & went to Tollymore Park, where arrived at Barryland Gate at 11.15 & left there for home at 11.55 P.M. Collected by sweeping in four areas, as follows, & found a surprising number of Barren, due, I think, to recent fine weather, clearing of the woods & fact that vegetation was dry & Barren most of it. Swept in 4 areas during the day. 1. a road from Barryland Gate southward to 8.15 P.M. 2. the road to the S. of the house, S. of the Post Office. 11.00 to 11.15. 3. after lunch in old bit of woodland near the house to the river & collected on road from house place to the Barren house & back again 1.40 - 2.10 P.M. Nothing seen at the top! 4. From 3 through Barren house & down Barren Road 4.10 - 4.55 P.M.

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27.5.62, cont.

Tollymore Park, Co. Down.

In killing bottle & most taken at station No 1 (Gould.)

Teuthidella ♂, ant. 1. not mtd. *Euphranta* ♂, ant. 2 & 3.

Pimpla flavicollis ♂, ant. 29. *P. elegans* ♀, off. white.

Mesoleucus sp. ♀, ant. 31.

Polyblastus propinquus ♂, ant. 30.

Taken at 1 (2 in smoker). [23 mtd. & there not mounted till 25/12/62]

Leptocryptus sp. ♀, ant. 28.

Trichostema cf. *pallipes*, ant. 21.

Pimpla ♂, ant. 24. *G.* ♂, ant. 24.

Stenomacrus ♂, ant. 24. *St. ventralis* ♀.

Stenomacrus ♂, ant. 29.

Trichostema

Homocidus cf. *triguttatus* ♂, ant. 24 - broken, none not mtd?

Camponotus ♂ = *Camponotus* *trivialis* ♀, ant. 29.

Pimpla ♂, ant. 33. *D. aculeator* ♂, ant. 30.

Plectiscus large ♂ = *Symplexis* *xanthostoma* *Forst.* ♂, ant. 22.

Plectiscus 3 ♂, 1 ♀, ant. 24. 2 ♂, 1 ♀, ant. 18.

Agathidium ♂, ant. 24. *Agathidium* ♂, ant. 24.

Rogas *circumscriptus* ♂, ant. 26, 2 red legs, pale stigma.

Apanteles *pallipes* ♂, ant. 24. *Apanteles* ♂, ant. 24. *Apanteles* ♂, ant. 24.

Aspilota ♂, ant. 32.

Euphranta ♂ = *P. pallipes* ♂, ant. 25. *P. pallipes* ♂, ant. 25. *P. pallipes* ♂, ant. 25.

Opius *caelatus* Hal ♂, ant. 46, 3 ♀, ant. 43, 44 & 46.

Phaenocarpa *infusa*, small ♀, ant. 24.

27.5.62, cont.

Tollymore Park, Co. Down.

81

Taken at 1 cont.

Aspilota sp. ♂, ant. 24.

Dacnusa (♀). *Dacnusa* ♂, ant. 24. *Dacnusa* ♂, ant. 24.

Monobotus *caelatus* ♂, ant. 24.

Plectiscus ♂, ant. 24. *Plectiscus* ♂, ant. 24. *Plectiscus* ♂, ant. 24.

Pimpla ♂, ant. 24. *Pimpla* ♂, ant. 24. *Pimpla* ♂, ant. 24.

Stenomacrus ♂, ant. 24.

Stenomacrus ♂, ant. 24.

Stenomacrus ♂, ant. 24.

Stenomacrus ♂, ant. 24.

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Stenomacrus ♂, ant. 24.

Stenomacrus ♂, ant. 24.

Stenomacrus ♂, ant. 24.

Stenomacrus ♂, ant. 24.

29.5.62, cont.

Tollymore Park, DO, cont.

Taken at 4, cont.

-mostly taken, only 1 mtd.

O. thoscentus? ♂, ant. 28, broad credit =

Stenocranus sp. 5: only 3 mtd. = *St. brevicauda* ♀, ant. 21.

St. curvicauda ♀, ant. 25

St. morionellus? ♀, ant. 22.

Cisthenes crassifemur ♂, ant. 40.

C. sp.? = *Euterinus divulgate* ♀, ant. 20.

Acrobaptus dentifer ♂, ant. 26.

Heterosyllus ♂ & ♀, ant. 32 & 30.

Bracon hispidus ♀, small, ant. only 25.

Colletes brevicornis ♂: not mtd.

Apanteles 3 = *Ap. sp.* 2 ♀♀ { These run to either pallipes in Marshall or fulvipes, but there is no trace of a keel on propodeum & tergite 1 is not more than twice as long as broad. So what? The aciculate Δ sp. on tergite 2 suggest, fulvipes! }

Ap. lateralis? ♂.

Syrphid sp.? ♀, ant. 24 { Larger than normal *floricola*, short terebra, ant. 24-seg, but tergite 3 entirely smooth! }

Phaenocarpa galathea ♀, ant. 21.

Ph. conspurcator ♀, ant. 27.

Aspilota ♂ & ♀ = { *Aspilota nigrescens* ♂, ant. 25.
O. thoscentis ♀, ant. 23.

Microgaster ♂, not mtd. *D. aphantus* ♀, ant. 23.

Apanteles ♂, not mtd. *acutus*? ♀, ant. 11: badly damaged in mtd!

Apanteles ♀: not mtd.

Proctos ♂ & ♀ }

Chalcids 3 mtd. } none mtd.

28th May 1962. Fairly dull after a sunny morning, but
drying & sun in afternoon as a May, breeze south from the
NW.

29th May. The day spent with light weather, but a NE wind
came about 10.30 and changed to breeze. Afternoon till early
5 PM. After a dry, clear day, some clouds, & a bit of rain in
evening, with some sun. Finished mending up the potatoes.

30th May. A very bright morning, but fairly dry, with a
NW-W wind: clearing in afternoon, with sun, about
but we got only a few drops. Last frost & fresh lawn in
forenoon, sun & clearing in afternoon. During
planted out the vegetable marrow (5) from mtd. & sowing
very early frost at night.

31st May } Bother day, similar, i.e. blurring sun & cold
1st June } drying, N.W. wind. On 1st June I dug up one
of the potatoes in main plot in back garden in order to get
space to plant some forgotten seed of Golden Wonder
potatoes & those I planted in two lines, staggered, at
1 foot intervals along the two edges of a wide furrow filled
with compost & sprinkled with potato fertilizer & watered
them. . . . something like a small lagoon - had.

Having received her dwarf Dahlias & *Calceolarias* from
Laurie Hill nursery & got the former planted in evening
2nd June. A dull, dry, almost warm day - a great contrast
to those preceding it. Weeded front border & cut paths off
in the evening. Mr. Gibian called in evening with some plants he had
got on the island, including a *Calceolaria* which he said
was all over the island. (proctos) with 4 or 5 plants & eggs.

H. sp. near tricolor ♂ and ♀, but disc of mesonotum $\frac{1}{2}$ dull (concolorous below posterior)

Geophilola spp. 40000, 3 ♀♀; only 1 ♀ mtd = *G. oculatissima* sp. n., ♀, 'Type', and 17.

Ap. laticornis σ^6 ; not mtd

Proctos. as 60 T. 2 only mtd. = Leptorhynchus cf. politus Thoms. ♂

& *Phanocarpa* cf. *dubiosa* Nixon ?? ♂, but head too transverse?

1/20/1912

Amphispion = Lygus punctatus, Zett. ♂, fide A.M. Mason, 1964. New to Ireland!

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7.6.62 cont.

Back garden, Tullybrannigan, Newcastle, DO.

Aphelopus sp. ♂, small

Gleniscia ♂, ant. 28, red abd. = *Gleniscia* of Lindstollen Holmgr.

Colletes sp. ♂, ant. 28

Aspilota sp. ♂ ant. 22
with dumpy, mason prop., dark legs.

Anone *hians*, ♀, ant. 34

Proctos 1 *Scutellid* =

Chalcids 1 *Ichneumon* =

Chalcids 1 *Ichneumon* =

♂ of my small ♀, ant. 16

on this day I found a dead bee, *Andrena* *chiron*, on sitting room window sill.

8th June The pollen period left about 10.20 AM, but before I left M^{rs} to. identified two ants in garden. *Formica* *serena* & *Myrmica* *scabrinodis*. The day was very hot & dry, but a change was possible.

9th June After a cloudy & calm night, a bright early morning with wind W & glass rising. *Andrena* *chiron* & *Andrena* *chiron* in garden, with slight drizzle coming on in late afternoon.

Left home on bike at 10 AM, but lost 15 minutes due to having to return for forgotten net & so did not get starting collecting in Tollymore Park till 11.15 AM just inside the Burnside Road Gate. Stayed in Park till 5.10 P.M. & collected in four areas, as follows:-

9.6.62, cont.

Tollymore Park, Co. DO.

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1. = sides of avenue from Burnside Road Gate to 1/2 mile inside the quarry, & from quarry to piles of old woodlands, at lower end of road & at same time, road = mostly 11.15 till 1 PM.

2. Old piles of woodland at the Stone to the Quarry, 11.30-2.30 PM.

3. From the slope S. side of 1st Burn to the gate of bog - & thence back along old track - 2.30 till 4 PM.

4. From the track 3/4 way up avenue leading to Haggard's Park - 4 PM till 4.30 PM.

In killing bottle I mostly either from 1. or 4. [Counted from 4.6. & then killed 1.6.62]

[Note: from side between Burnside Road Gate & "Holly Shpton" (E. side)]

Thymus *ruficornis* ♀ at 3.

Spilomena *troglydytes* ♀, off leaves of fallen *Spiraea* *ulmaria* at 1.

Colletes *liogaster* ♀ at 2.

Trichoclella *variegata* ♀ at 3: very small, black & red abd.

Homocidus ♂, ant. 21, only 1 abd. = *Lygaeonematus* *laricis* ♀ at 2.

Pristiphora *denudata* ♀.

Aspilota ♂ = *Phygadeuon*? sp. ♂, ant. 23.

Tryphon ♂ = *Polyblastus* *vestringi* 30 ♂, ant. 28, 29, 31. [Antennae 29 & 31. Ant. 30. 1st & 2nd antennal segments 29 & 31.]

Polyblastus (cf. *angustatus*, but) ♂, ant. 31. *Homocidus* *flavolineatus* ♂, ant. 25.

Promethes *laticarpus* ♂, ant. 25.

Tryphon *signator*, a large & a small ♂, ant. 33 & 31, a large & a small ♀, ant. 34 & 31.

Acrobaptus *denticipes* 2 ♂, ant. both 26.

Thymus ? = *Astiphronomus* *strenuus* ♂, ant. 39.

Beetle = *Coccinella*

90 9.6.62, cont. Tollymore Park, D.O., cont.

Taken at 1, + in rocks

[21 mtd. ^{from 1} these labelled 2.2.64]

Cryptine 2 small ♂♂, not mtd.

Polyblastus? Same species as in killing bottle (see p. 89) which is Schmidt. I can only run to angustatus Roman, but tergite 1 too broad to be that sp. 2 ♂♂, ant. both 29.

Anisotaenus tenellus ♂, ant. 40.

Phaenocarpa melanocera 2 ♂♂, 1 ♀

Promethes pubescens (2) ♂♂, 1 ♀, not mtd.

Homocidus discipes ♀

Stenocryptus ruficornis 2 ♂♂, 1 ♀

St. nivalis? 2 ♂♂ (one with curious ^{fresh} venation in fore wings: 2 ♂♂, ant. 27 & 28.

Homocidus = H. subopacus? 2 ♂♂, ant. 21 & 22: small: tergite 3 with white basal band in one, quite black in the other.

In d. p. small ♂ = Eusteriscus divulgata ♂, ant. 40.

Apanteles triangulator? ♀ (tergite abnormally enlarged?).

Euphorus parvulus? 6 not mtd. } no Euphorus mtd.

Aspilota cordulata 2 ♀♀, ant. 25 & 26.

Aspilota sordipes? 2 ♀♀, ant. 17 & 18, subapical seg. square: cf. ♀ from Battle wad (2) 21.6.57.

A. fuscescens? ♂, ant. 22. A. (Synaldis) rudenticornis? 2 ♀♀, ant. both 17; v. small, ant. v. thick seg. 2 small form.

Orthostigma tenuipes niki? ♀, ant. 20.

Dacnusa 2 (4 no seg. of 2. are shown.)

D. didas, a very fine ♀, ant. 32.

D. persimilis, a very nice ♀, ant. 25.

9.6.1962, cont.

Taken at 1, cont.

Aphidius 8 none mtd.

only these 2 mtd.

Proctos. 5 (2 Belytid) 2 ♂♂, 1 ♀, 1 ♂, 1 ♀

Belyta forticornis? ♂ (NB. I doubt if examples of this & quadridens are all correctly named by Nixon in my coll. I think the one mixed up with AWC. 4/12/62, & one other = Leptorhaphus? ♂, very dark & won't fit anything in my coll. & mixed, & Nixon!

Chalcids: ca. 12.

Cynipids 2

Taken at 2.

[12 mtd. from 2 & these labelled 2.2.64]

Anisotaenus ♂

Leptorhaphus ♂, ant. 22.

Stenocryptus ♂, not mtd.

Homocidus angustatus? ♂, small & some ant. mtd.

Oncophanes lanceolator ♂, ant. 24. Apanteles pallipes? ♂, not mtd.

Encyrtus concoloratus ♂(?) ant. 32

Aspilota 3: Asp. violacea ♂, ant. 22. Asp. (Synaldis) rudenticornis? ♀, ant. 19. of ♀ from Bliddery Ford, (2) 22.6.57.

Asp. vernalis ♂, ant. 26

Dacnusa melanocera ♂, ant. 21

Proctos. 3 Belytid & 2 ♂♂, 1 ♀: only the 3 Belytid. mtd. =

Belyta forticornis? 2 ♂♂: see note above under station No. 1

& one other ♂ of? = Glicista cf. cantiana? ♂

Chalcids: ca. 20 none mtd.

Cynipid 1: not mtd.

92. Tollymore Park, DO, cont.
9-6-1962, cont.

Taken at 3: 4 in number [31 mtd. from 3 & then labelled 6.2.64]

Many Tipulid? *Superficial* skin today sticking out of bodies in the
misets. brown. head legs: but no perianth sides.

Asphondylia? not mtd.

Beetle = *Taphrus*

Phagogenid ♂ = *Miseta oculata* ♂, ant. 29: no trace of yellow orbit.

Ametela 2 minute ♂♂, not mtd.

Atractodes? 2: only 1 mtd. a ♂, ant. 26

Phygadeuon? ♂, not mtd.

Stenomacrus 2 black ♂♂, not mtd.

Stenomacrus 3: only 2 mtd. = *St. affinis* var. B? ♀, ant. 22, also? a ♂, ant. 27.

Promethes 3 ♂♂, 1 ♀, none mtd.

Phyllocnistis same species as at 1 & 2, but one has mainly red abd. & hind tibiae
reddish in middle: ant. 27, 28 & 28: the last that with red abd.

Chalcid = *Leptophoroma strenum*, large ♀, ant. 39

Brachon 2 ♂♂ = *B. satanas*, one smaller, ant. 33, the other larger, ant. 37.

Colastes braconius ♀, ant. 27.

Rogus similis but ♀, ant. 38 - 2 rather dark example

Apanteles 3: not mtd.

Ephron 3: only one mtd. = *E. jollyana* ♂, ant. 24

9. 6. 62, cont.
Taken at 3, cont.

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Pentapleura of black legs = *P. pumilio* ♂, ant. 24, head very transparent & eyes
very small!

Aspilota 9 = *A. sternalis* 4 ♀♀, the largest, ant. 22 the type! 3 others smaller, ant. 19, 20, 21.
(*Stenob. vidua* in front & very coarsely & strongly sculptured. Ant. 22, 21, 21.)

(Also a large & a smaller ♂ with strong ornamentation (almost as if *thoride*) & rather stout
expanding wings: possibly those of *sternalis* (see above), ant. 22 & 21.

Asp. nigrescens ♂, ant. 21 *Asp. (Synaldis) concolor*, small ♂, ant. 20

Chasmodon areolaris 1 ♂, not mtd. *D. ...* ♂, ant. mtd.

D. semirugosa ♂, ant. 37.

D. eros var. *fuscicornis*, small ♀, ant. 35.

Ephedrus ♀, but only one which has yellow legs & 1 more head =

Praon 2 (1 ♂, 1 ♀) = *P. ...* minute: only the 2 *Aspilota* mtd. =

= *Polyta forticornis*? 3 ♂♂ & *Adista insulata* ♀

Chalcid about 10, none mtd.

Euphranta = very minute

Beetle = *Phagomyia agnoscens* (= *pallida*).

Taken at 4:

Phygadeuon? 8 ♂♂ (all same species): one mtd., ant. 23 {

Orthocentrus prolixus ♀, not mtd.

Promethes cognatus 1: not mtd.

Asphondylia = *grandifrons* 3 ♂♂, none mtd.

Camptopogon ♂, not mtd, the only member of the genus seen all day!
P.P.U.

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16th June 1962. A very fine sunny day, with light & variable wind, after a dry night. Last night I saw in the winging. Had bonfire. In afternoon I watched a ♀ *Scorpaenula* (with *leptocoma* as the female) at flower of *Lychnis glauca* by the garden path. It had not yet commenced its work on the individual flower but was busy, nevertheless it looked at me & I was sure it was of *leptocoma*, & it was of that species. (The bee distinctly concentrated on the flower. It was going over & alighting slightly on a grassy patch one of which it stayed only a second & passed on. It was not collecting any pollen! In evening between 9.30 & 10.10 P.M. I saw a Heavy-bodied Bat (*Myotis*) flying with the Swifts for some minutes, before it made off towards the North West towards the open country. I had not seen one of these bats for a long long time. My neighbour, Mr. Henderson, told me of his seeing a young hedgehog in his garden about a week ago.

17th June. A dry mainly sunny day with dry fresh E. wind after a dry night, becoming cloudy in late afternoon with falling glass & rain forecast for night, but now has fallen by 11 P.M. Sunday! Spent day cutting down plants which had fallen over their neighbours & got out of glass & in evening for mail, wrote letters, & sent 1962 shell from White Bay to Mrs. Fisher to Miller. All in preparation for going on holiday on 19th.

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18th June '62

After heavy rain at night & dry forenoon during which I sent food boxes rather early 5.55, with flowers at frequent intervals in late afternoon & evening. Fed remainder of snails, visited Killarney Farm, did some work, & generally prepared to go on holiday tomorrow.

19th June. Clouded off some rain in garden in forenoon, but no wind, but with about gale from SW, later a dry night & SW strong wind. In afternoon George came in from his school to help & after tea I went to see the Glasgow Club, & did not get home till 9 P.M.

Scottish Trip: 1962.

20th June 1962. Arrived Glasgow very early - about 7.15 A.M. & drove straight to Buchanan's Station where arrived 7.33 & caught 7.55 train to Kilmarnock & reached the Swan Lovers Hotel, Larass, Perthshire, at 11.20 A.M. After coffee we walked down to shore of Loch Tay & back to my bank. After lunch at 2.0 P.M. set out once more down the loch, the weather, which was not so windy in Glasgow now being cleared & we had a fine afternoon with some sunny intervals. On way to Larass saw several patches of snow on the S or SE slopes of several mountains & there was 3 large & 1 small patches of snow on the Loch Lomond itself. Between 2.30 & 4.30 P.M. I wrote in two areas: — Larass

1. In the lane from old school to shore of Loch Tay.
2. From foot of lane to the Larass Burn, over the narrow bridge, down its left bank to the Loch & along the Loch shore for about 20 yards & then back the same way to foot of the glen.

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20.6.1962, cont.

Lantern, Mid. Bld.

Insects taken at 1 - H. Lane - 2.30 - 3.30. [9 only mtd. & these labelled on 11.3.1964.]

Cryptine 1 - not mtd.

Stenomacrus intermedius 2 ♂♂, one antennae less, 28+ segs. - all bitten off short!

Homocidus cinctus ♀, ant. 21; dark form!

Promethes sulcator not mtd. Polyblastus sp.? ♂, ant. 27 - (red femurs, red & black abdomen.)

Chalcid 1 - not mtd.

Euphyas 2, not mtd.

Bracon 2 or 3 = B. scotica 2 ♂♂, ant. 33 & 26+; ♀ type from Kenner, MB, (12) 19.7.54.

Chalcid 1 - not mtd. = Dolops indagator (Hal.) ant. 33-34.

A magnificent ♀ with 33-34 seg. antennae.

Spalangia ♀, not mtd.

Chalcid 1 - not mtd. Euphyas 2, not mtd.

Chalcid 1 - not mtd. 1 ♀ mtd. 1 rather mtd.

Aspilota cf. nemoralis ♀, ant. 18.

Small Plectiscus (H. Gahan) 1 - not mtd. 1 Plectiscus only. Plectiscus mtd. = ? schultze ♂

Chalcid 1 - not mtd.

Chalcid 1 - not mtd. Thaum. T. pulch.

none mtd.

21st June 1962 After a very early & pleasant morning. 99

came on about 5 P.M. & stopped collecting, and stayed at the house. Worked 9.42 to 10.15 saw a few more about 10.15. Did some shopping. Took photos of hills about 10.30. Then after a long time, one of the bridges for taking a view from the bridge looking at the falls of the river & the old mill. The old mill is a fine building, but I was not able to get in & found (1) the old house bridge replaced by a new one, (2) all the lime trees cut for material to build the road & side of road sprayed with weed killer, (3) the old station was replaced by a new one. Garden made round it. Suspect before lunch around the pond (pond) in field 5 of which about half way to the pond (= 1) & after lunch along road side near Lock Tug, as rain was on! Caught them at 3.5 back to Lantern. Out of place! P.T.O. 6 p. 101 →

[4.5 mtd. from 2 & these labelled 13.3.1964.]

Insects taken at 2. Lock shore & Lantern Burn. 20.6.1962.

Cryptine 1 - not mtd. or Chalcid 1 - not mtd. or Atractodes 1 - not mtd.

Stenomacrus intermedius 5 ♂♂, ant. 29(1), 30(4); 3 ♀♀, 27, 28, 28.

Promethes pubescens? ♀, not mtd. Homocidus nigularis ♀, not mtd.

Homocidus 1 - not mtd. 1/2 ♂, ant. 21.

Chalcid 1 - not mtd. Mesochorus sp. ♀, ant. 32.

Euphyas 2 - not mtd. Plectiscus 1 - not mtd.

Plectiscus 4 = Apanteles albipalpis? ♀, ant. 20.

Helictes sp. ♂, ant. 25. Plectiscus sp. ♂, ant. 20. Plectiscus sp. ♂, ant. 21. P.T.O.

Rogers, J. & M. P. Rogers of Pickering - walked up the hillside of the Lawrenson Burn to col heading to the Yellow Burnie, where met a Glasgow student named Walkinshaw - a pupil of R. Hedderley - & showed him *Coronula rupestris* on the cliff facing down the burn about 1/2 mile NE. of the col. While the others went on top to look for "*Azalea procumbens*". We found it, where we knew it grew, but it was not in flower. I then took Walkinshaw down to the "cove" behind the spur & showed him the *Azalea* growing on the hummocks in the boggy hollow & found one left in flower. Here we also saw the *Trigonostema macrocarpa* that I had discovered some years ago, but it was not in flower. On the higher ground sedges were just showing growth & large patches of snow lay on the slopes at SW corner of the Yellow Burnie (at ca. 4,800 ft.) & in the North Burnie of Ben Lawrenson above & W. of Loch an na Beath (Loch-na-beath), of which snow patches I took 3 photos.

21st June 1962 ^{Sun. Day} fine from 5.50 all day with drizzle or rain in early morning & evening, after a cold stormy night, but not cold. In forenoon drove to Kilmorie by Mr. Rogers & wife, Mr. R. & Dr. D. who at about 1.30 walked along the track with me & I took half an hour's sweeping under stones on the left bank of the burn in Taynall's field, ground, where conditions were the same as in former years.

24.6.1962

Swampy ground, trees on left bank of R. Tay, at Taynall's field, Kilmorie, Mearns Co. 11.30 till 12.0 noon.

Cryptinae & (*Phygadeuon*, *Hemiteles*, *Microctonus*) 5, none mtd.

Stenomacrus ♂ & ♀ = *St.* sp. ? ♂, ant. 23.

St. ochripes ? ♀, ant. 27.

B. longipes 2 ♂♂, one with dark wings = *B. hastatus* ? ant. 19; put in coll.

B. longipes ♂, ant. 19.

O. (B.) wesmali Hal. ♀, ant. 43. *O. levis* ♂, ant. 23.

Orthostigma sp. ♀, ant. 20.

Aspilota (*Synaldis*) sp. ♀, ant. 16.

Dacnusa adducta 3 ♀♀, 2 ♂♂, 1 mtd.

D. melanura ? : the 3 ♀♀ mtd. have only 23, 25 & 25 seg. ant. & are thus *persimilis*, Nixon!

D. hera ^{in coll.} ♀, ant. 29.

Belyta ? - *leclisi* *prolongata* ? ♂ : perhaps rather large! Larger than 49 mtd. by Nixon!

Agyneta ? , probably off oak! not mtd.

Pimpla ? : none mtd.

Chalcids mostly small : none mtd.

25th June 1962.

A rather miserable day & not clearing till 5 PM. & then
 a nice sunny evening. Left home by 9.45 for
 Ednam, where met by Mr. Rogers in the "Land Rover"
 & Dalhousie & I drove up to where the road to the quarry
 branches off the main road. Mr. Rogers driving
 in the Land Rover, in the car, I sat in the back. The road
 but 200 yds. off the main road was a locked gate, past
 which the car could not get, so we all had to get out
 & walk. After walking about 1 1/2 miles up the road we got
 across the moor & came to a place where Burns
 Pass is, perfectly, found *Spizella monticola* & *Corvus corax*.
 Here we got up into the moor, the rain was now heavy,
 & wind of some gale force. The rain & Mr. Rogers turned
 back. Dalhousie & I went on & eventually reached
 the gap between Burn Brae & Burns. In the
 where had lunch. After lunch we went west to find
 me, but not for *Corvus grahami*, but was much hampered
 by the mist. Eventually by chance we came on the north
 of gully on which it grew & obtained a seed, but it
 was just beginning to seed up flowering spikes. We then
 turned back & made for the road & reached it just below the
 quarry, came down the road for a mile & then straight across
 the moor to Ednam, seeing *Habermia alba* as we

25.6.62, cont.

As we approached the road, which we reached at about
 5 PM after stopping, just above it for a cup of tea.
 Home by 5.25 bus from Ednam at 5.45, very wet!

26th June 1962. A bright, mainly sunny day with N. wind
 & only a few slight drips of rain. Went to Glenfeldy on
 11.15 AM ^{bus} after some shopping (Stockings at Farnes of Perth?)
 spent the day sweeping in the upper part of The Birches
 & returned by 5.25 bus to Ednam. Swept here & there from
 where the public road crosses the glen to where a river point
 terminates the lower path on right bank of the river. Also
 collected *Corvus grahami*, *Thalassidroma* sp. (1st seen)
 Back from, & took a cutting of *Corvus grahami* & *Corvus*
 part of the Birches. ^{did not reach home 4.45} as well as some more, for Mr. Caldwell.
 The Birches, Glenfeldy, West Perth.

[127 mtd & then labelled 24.3.1964
 at 5.45 PM] 1 PM till 4.50 PM

Aculeator taken. *Anteon* sp? 2 ♂♂, 1 ♀ =

Homada ruficornis ♀.

Sawflies 2 = *Pteronides myzostidis* ♂.

Lycomorpha laricis ♀

Hemipteron 1 =

Beetle: v. small, brown, dark antennae! =

26.6.62, cont. The Banks, Ashfeldy, MP. cont. [127 mtd. + then labelled 24.3.1964 at 109.]

Trichetia bit

Coratichneumon culon ♀ ant. 23. Phaeogenes (Pruceus) suspicatus ♀ ant. 19.
Tryphonid ca 20; only mtd. = Atractodes sp. ♂ ant. 24.

Pimpla sp. ♀: not mtd.
Gen. of sp. ♂ = Allomerus pimplarius ♂ ant. 23: put in coll.
Stenomacrus curvicaudatus ♂ ant. 25. St. exilis ♂ ant. 23, also ♀ ant. 23.
St. merula 7 ♂ ant. 26(2), 27(1), 28(1), 29(1), 30(1): ♀♀ ant. 22(1), 24(4), 25(4) (26(2)).
St. fumipennis miki ♀ ant. 23: put in coll.
Trichetia aethiops group (7 spec), ant. 28: put in coll.
Promethes scutellarius pulchellus: none mtd.

Mesoleptid? ♀ ant. 40.
Chorebus ♂ ant. 29.
Tryphonid, gen. of sp. ♀ ant. 32: curved up terebra, but not Eucnemus!
Pimplid ♀ ant. 25 =
Meteorus 2 very small ♂ ant. 26 & 29 =
Ctenopogon? = Olesicampe petellana 2 ♂ ant. 30 & 31, also a small ♀ ant. 29, all ♀ specimens have 6 segments.
Apariteles albipalpis ♂ ant. 20.
Heterospilus spp 2 ♂ ant. 17 & 17.
Allomerus pimplarius ♂ ant. 23, in coll.
Plectiscus sp. ♂ ant. 23.
Proctos of paganus Hal. ♀ ant. 19: (also a ♂ sp. ♀ ant. 22)
Eucnemus cf. oligoneurus, small ♀ ant. 17: put in coll.

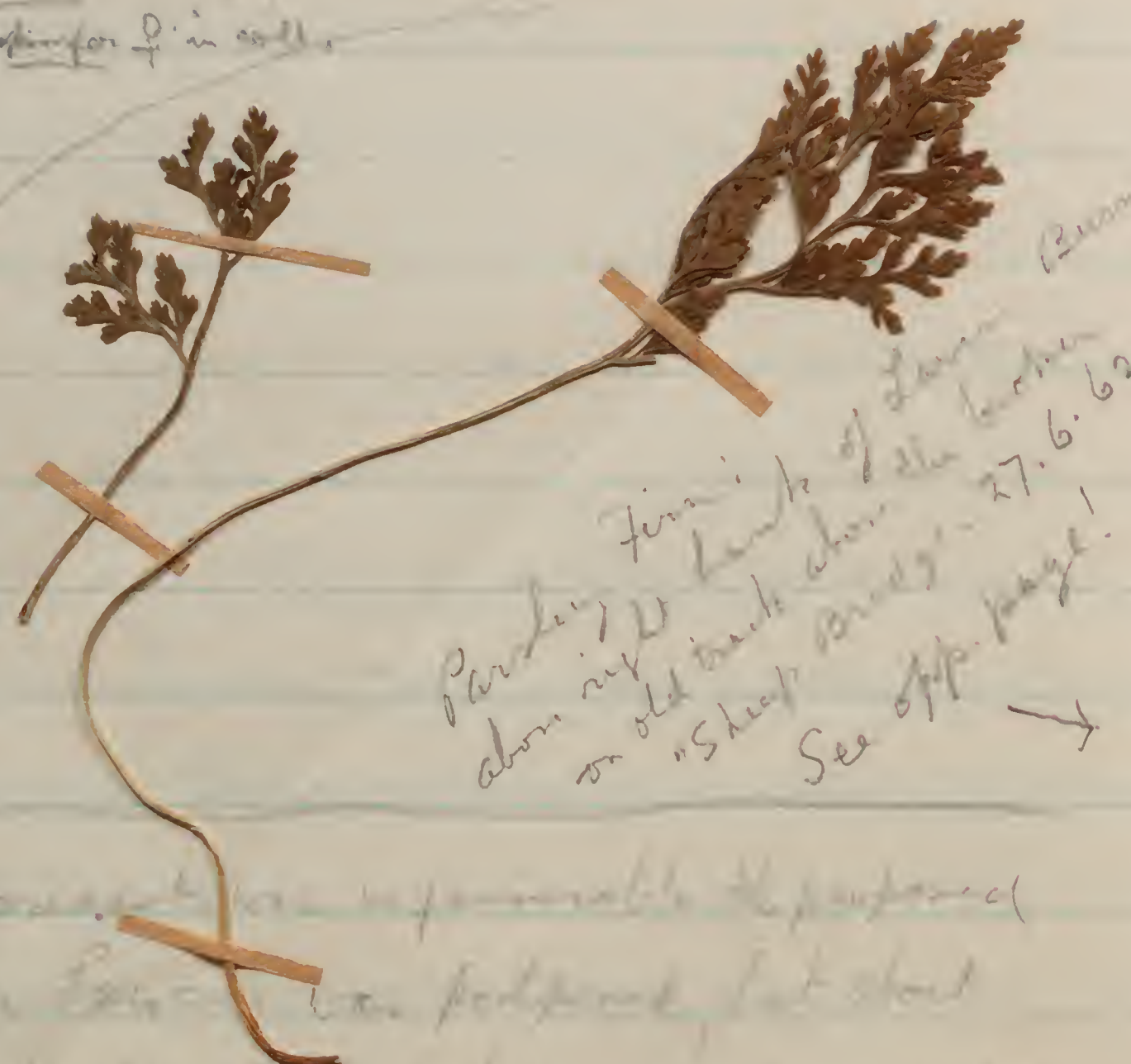
26.6.62, cont. The Banks, Ashfeldy, MP. cont.

Anteon ♂ & ♀ (See p. 107 antea)
Bracon 3 ♂ & ♀ = B. nitidus ♂ ant. 31, ♂ ant. 31, & B. cf. immutator ♀ ant. 27, all black.
Eucnemus - Plectiscus cleator ♂ ant. 22. & Eucnemus brevicornis ♀ ant. 28.
Atractodes = A. cf. difficilis? ♀.
Eucnemus flavicornis ♂ (♀?), ant. 22. Plectiscus aethiops, small ♀ ant. 22.
Blacus strabus ♀ ant. 15: put in coll.
Opius xanthogaster ♂: 3 small ♂ ant. 24, 24, 24. C. spp.? { 8 small ♂ ant. 22, 25, 24, 24, 24, 24, 24, 24. probably lost, none mtd. }
Phaenocarpa pullata Hal. 2 ♂ ant. 35 & X. Ph. confusata, small ♂ ant. 35.
Tanyocampa ornitho ♂ ant. X. Phaenocarpa lunda ♀ ant. 29. Pl. flavipes ♀ ant. 30.
Adelius sylvia ♂ ant. 22 & ♀ ant. 26! Aspilota (S.) temporaria ♀ ant. 18: put in coll.
Aspilota (no dimple) = A. succularia, small ♂ ant. 18, also? a larger ♀ ant. 18.
" (with dimple) = A. micacea? a minute ♀ ant. 15. A. cf. fuscescens? ant. 17, short, proapical segment small.
A. liosoma S. & G. ♀ ant. 18. A. dentifemur ♂ ant. 22. A. cf. nigrescens ♂ ant. 22.
A. fuscescens? ♂ ant. 23. A. cf. ♂, longiter 1 + 2 segments that seems: might be one of the 8 dimorphic. (2) 10.7.64
A. (10) maculipes ♂ ant. 18. A. { 2 specimens of all 10, but not mtd. }
Dacnusa longiradicis 2, small ♂ ant. 22 only, maculipes ♀ ♂ & ♀.
D. melanura ♂ ant. 22. none of above mtd.
D. petiolata, small ♂ ant. 44. D. lara ♀ ant. 30. D. bellina, small ♂ ant. 26.
D. aphanta? ♂ ant. 26. D. areolaris? ♀ ant. 28. D. cf. 2 small group of 10, all black, (4) 10.7.64
D. cf. armida (♂?), ant. 33. D. postica ♂ ant. 37. (all small ♀ of orchid group, ? new kind. in coll. ant. 28.)
D. (R.) stramineipes ♀ ant. 28. put in coll.
Coelinius n. sp. Sego: 2 ♀♀ ant. 31 & 33, 1st rather with abd. dense: ventrally compressed instead of laterally! (2 = terminal)
Acanthia hians, ♀ ant. 34.
Ephedrus salidus 3 ♀♀ ant. 24. Eph. brevicornis ♂ ant. 24.

26 June 62 - The Bick, Sheepfold, MP cont

Proctotrupinae *Zygota fasciata*?
Spilomera basalyformis ♂ in coll. *Paroxylus spinifer* ♀ in coll.
 + 15 other *Belytid*, (all n.d.)

Class 5 *Proctotrupinae*
Exochus micromerus ♀
Phaenocarpa vesicator 2 ♀♀
M. calcar ♂ or ♀ n.d.
Ulixes sp. ? ♀
Chalcid many, none n.d.
 except 2 of



27th June 62. In the morning I was informed the postman
 said that the West House & Ben Lovers was postponed, but about
 11 AM we set off up the path opposite the hotel & on going the
 path turned a half right to perhaps the tributary of the Lovers
 Burn. I was at first very anxious for some *Proctotrupinae* which
 I discovered in 19. The only guide for this was that it was
 nearer the Lovers Burn than the source of the tributary & in line
 with the "Sedg" "stiff" on the alluvial ground & finally it lay
 below a semicircular bank caused by a slip on the surface
 of road slip the ridge grass. We eventually found it &
 had lunch at 1.15 PM. The curved bank is visible on
 other features in the area & is about a quarter below the road
 from Lovers to the dam on the Lovers Burn & is marked
 by a large boulder at each end & one in the middle.
 The ridge is not all over the place but



occurs where some *Gallus* grass is in plenty. *Lactuca*
cardata occurs, including growing in the open in *Sphagnum*.
 After lunch we proceeded upwards to look for the black-
 moraine on the ridge where on some date I found *Coronilla*
rucciosa, but failed to see either the black or the plant & I
 now believe the rock had been removed to help build the
 dam, & on the Lovers Burn, from which direction we
 saw tracks of some wheeled vehicle. After afternoon tea
 above the broken bridge over the Lovers Burn, I went up
 above to the lowest scarp on S. slope of the alluvial &
 noted a *Solix* (a *phyllophila*), *Ranunculus*, *Geranium*,
Helianthemum, *Silene* *oppositifolia*, *Rosa* sp. of *canadensis* group,
Hieracium sp., *Deschampsia* ? *uniflora* ? & also collected
 there a few mosses, as well as on SE slope of Ben Lovers
 Beck at hotel at 6.40 & had bath.

28th June 62. A most perfect day after a dry night, nearly
 all hot sun & very little wind. Left hotel by 9.45 for house
 but it was 10.30 AM before Mr. Gregor's men arrived in the
 Land Rover & we got the gate open. He then drove us (Mr. & Mrs.
 Roger, Mrs. Beattie (of Edinburgh), Brian & myself) up to
 the last bend in the zigzag of the hydro-electric road.
 From there we walked up into the West Corrie of Ben Lovers,
 had lunch at 1.15 & reached head of corrie about 2.30

28.6.62 cont. West Corrie, Ben Lawers, cont.

When we went all the usual plants, but the myriads only just coming into flower & no *Erigeron* seen even in bud, but considerable numbers of plants of *Hebe* *rubra* in hollow the big cliff, as well as *Sedum villorum*, *Campanula*, *Adonis*, *Malva alpestris*, *Allyria alpestris*. Among the corries we ascended to the crest by the short gully below the big cliff, along *Sax. cuneata* (not in flower), *Sax. cuneata* of *Sax. cuneata*, of which only one bud & spike of bulbils. It appeared very much rarer than in former years, & only one plant seen with bulbils & not more than a dozen all told around the corrie.

My patch of *Sax.* *cornuta* (or *viridiflora*) still under the rock 30(?) yards W. of the curved wall in the corrie as well as the two corries seen in 1958. After spending some time by the summit we came down the E. ridge where I showed Mrs Beattie the *Sax. cuneata*, which still grew amongst the group of boulders now looking lost - one but, though the plants seen in former years on the western side of the rock no longer there.

Home at 7.45, after a wonderful day, during which I took about a dozen photos.

→ In 1963 there had bulbils or so are *Sax. cuneata* & not *viridiflora*.

A.W.S.

29th June '62,

Another perfect & very hot day in sun & only very light easterly S.W. breeze. Took it easy & spent the day between the hotel & Loch Tay. Swept in two areas, as follows:-

1 = Lake from road to shore. 11.0 to 12.0 noon.

2 = Foot of Ben, & scrub along road above it, i.e. the boundary of the Robertson's land, where the sandy heath is ^{12.0 noon} till 1.0 PM. _{2.0 PM to 3.0 PM}

Insects taken at 1 (Ben)

Trichoptera ♀ *Trichoptera* common at.

Trichoptera ♀ very fresh.

Scaphy ♀

Myiodes *repens* ♂

[Beetle 3 taken at 2!]

Diptera 2

Antenna ♂ 3

Cryptine 3 none mtd.

Chrysopyga *incubator* ♀

Polyphaga ?

Stenomacrus ?

Cryptine ♂: one of which looks interesting!

116.

(2) 29. 6. 62, cont.

Lewes, M.P. cont.

Aspilota spp. ca 15

Dacnusa cf. 25

D. (G.) affinis 3

Chorebus conjugens 1
Coelinius 3

Aphidius sp. ♀, the only mtd.

Proctos

Chalcids

Cynipids

30th June 1962

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A dull very warm & humid forenoon after a dry night. Fresh in evening & colder once more. Went by 11.15 bus to Laines Bridge, beyond Lewes. I walked to Teymouth Heath ground at Hove. Collected by sweeping along roadside until we entered the road. I collected 2 or 3 times with the help of the farmer opposite of R. Tey, which bridge is now only safe & a footpath. Here filled a large bucket before lunch & another after lunch, before returning to Laines Bridge to catch the bus. Forgetting this was Saturday, we had to wait an extra hour for the 6.30 bus from Bluefield, which turned at Hove, and shared a car with two ladies who had to get back to Hove & reached the hotel at 7.10 P.M. All insects taken in the park from left side of Tey.

Teymouth Heath estate, Hove, Sussex, and South.

1. = roadside from Laines to north & bridge to estate. 11.45-12.15
2. = edges of paths, etc., on estate before lunch. 12.15 till 1.15 P.M.
3. = " " " " after lunch. 2.0 till 2.45 P.M.

Insects taken at 1 *Dicranoloma* 3

Atractodes cf. *trivittatus* 3 *Harobius apertus* 1

Opius sp. 5

Aspilota 4 *Dacnusa pubescens* 288

Proctos

Chalcids

Cynipids

(2) 30. 6. 1862, cont.

Insects taken at 2.

Anteon sp. 3 ♂♂

Eptenura 4

Campoplex 7, none kept.

Promethes sulcator ♂.

Agropterus praeceptor, small ♂.

Gen. et sp. 2 =

Stenomacrus 3.

Empididae 2 ♂♂

Plectiscus 1 = Helictes ♂: not mtd.

Bracon 4

Colletes braconum 1 ♂, 1 ♀, not mtd. Aspilota ♂

Euclyptus ♀ =

Hormius 1

Euphorus 2.

Pygostola sticticus ♀

Blacus 2

" var. ♀

Opus sp. 8

Trechus curvatus ♂: not mtd.

Pentapleura angustula 2 & P. punctata

(3) 30. 6. 62, cont.

Aphidius thymicola 2

Adelius ruficornis 2

Phaenocarpa ruficornis 2 ♂♂. ♂ ♀.

Aspilota spp. 10 (5 kept) =

Dacnusa pubescens 1 ♂, D. melanocera 2, D. areolaris 1.

D. longiradiata 2, D. areolaris 2, D. areolaris ? 1 each.

D. sp. 3 =

Triclistus 4

Proctos.

Chalcids.

Cynipids.

Scorpion Fly

Dipterous

30.6.62, cont. Taymouth Castle, Kenmore, MP, cont.

Insects taken at 3. *Epitoni* ♂, not id.

Cryptinids 8: none id, except 2 =

Tryphon 1 =

Chalcid ♂, same as at 2: not id.

Ant ♀ from ♂ of ♀ = *Ponera punctatissima*: probably swept near the
Antennae 2 not id. Kenmore rubbish dump! AWS.

Bombus

♀.

Brach ♂.

Rogas irregularis, dark ♀

Apanteles ♂ & ♀

Ephor 3

Streblocera fulvipes Westwood, ♀, ant.

Blacus ♂.

Opus off 5

Phaenocarpa pinnaria ♀ *Diapars* ♂ not id.

Adelius ?

Aspilota 5: none id.

Chalcid ♂, *aphant* (2), *maculipes* (1): none id.

2.

2.

(3) 30.6.62, cont.

Chalcid 1 ♂, *aphant* 1 ♂ not id.

Chalcid ♂, not id.

Ephor *laevigatus* ♂, not id.

Tryphon ♂ =

Aphid ♂.

Proctos.

Chalcid.

Tryphon

Beetle

1st July 1962. After a dry, windy, night & early bright morning,
forenoon, but very windy; cloudy in afternoon.

I spent the forenoon clearing up yesterday's netting & in aft.
swept for an hour near the Loch shore as (2) 29.6.62 (A.115-116).
& have took the following insects: —

Loch Tay shore & nearby, Larven, MP. 4.0-5.0 P.M.

192
1.7.62, cont.

L. Tay above & south - Lower NE, cont.

Epilobium

Epilobium

Epilobium 14 rows high

Prunella 100 ft or, P. verticillata, P. vulgaris, etc. 7 ft

Zostera 100

Stemona 3

Pandanus 1

Pinus 1

Euphorbia

Polygonum 8 3

Thymus 2

Opuntia 2

Phacelia pinnatifida 300 ft alt

And. in flower 1

Aspidistra 13, etc. 10 ft

Baccharis edulis, melanocarpa, 7 m x 5

1.7.62, cont.

Lower (L. Tay) NE, cont.

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Prunella

Chelidonium

Euphorbia

2nd July '62. A day of very strong NW. wind on the hills, where mainly cloudy, but hot sun over Loch Tay & the lower slopes. Left hotel at 10.0 A.M. & walked up the old track to the dam & thence by the path to Loch-man-Loch, where arrived at 1 P.M. & had lunch at base of the loch in shelter of rocks at 1.20. The wind so strong as to lift the water of the loch in sheets & flurries. Spent time from lunch until 4.15 on the cliffs W & N. of the loch & saw all the usual plants including six *Woodwardia alpina* on cliff of The Stairs - 4 on the place / photoed 2 - 1958 & two smaller further west; *Veronica fruticosa*, *Potentilla crantzii*, *Erigeron anthyllus*, *Viola hutchinsii*, *var. annua*, *Silene acaulis*, *Helianthus*, *Carex struth.*, & many commoner plants, all in flower. On way up the loch below the dam saw numerous Small Heath Butterflies.

North Coast of Ben Lomond, M.P., cont.

2.7.62 cont.

& for the first time this visit, but not a single *Montana* *Pinguicula* usually common at the place. Also saw a specimen of the large "daisy" *Geranium* *macranthum*? of which a specimen was caught by Matthews at the lake (or "glen") on 20.6.62.

Left the lake at 4.15 & home at 4.45.

of 7.0 P.M. for dinner.

[Mr & Mrs Rogers of Pickering

Left after breakfast & Great Rogers arrived at dinner time.

No! this note applies to date of 3rd July - not 2nd!

3rd July '62. Left hotel alone at 10.5 AM & as yesterday walked to Loch nan-Bid & from outlet walked up towards the col between Meall Garbh & The Stairs, taking lunch at 1 P.M. by the big camp where I photographed the *Trigonum* in 1958.

Saw also here one clump of *Saxifraga*, a small fine clump of *Silene* *reticulata* spreading down the rocks from the edge of the moor. Continued upwards on a long descent to the lower lake hollow at source of the first big burn E. of the Stairs, where most *Crabapple* *nivea* & *shrub* of *Chamaenerion*, as well as many other plants, including one *Geranium* *macranthum* just in flower. From here on went since & very cold to the col, where collected many *Geranium*, etc. for Mr Caldwell & then on the left of the gully to visit the *Cryptogramma montana*, which

I found with difficulty, as the gully greatly changed since 1958 & the large boulder which formerly almost blocked the bottom

of the gully no longer there. The fern itself grew under an overhanging ledge & was quite sheltered by recent rock work & looked very miserable. Being too wind & condition of the fern a photo was not possible, so I returned by somewhat similar route to Loch nan-Bid, then by half way down, left the lake at 3.45 & home at hotel at 5.30. Packed before leaving hotel some ferns & taken for Mr Caldwell on 2nd July & *Geranium* *macranthum* taken on 27th June.

4th July '62. Left Larnock by 9.42 AM bus for Kilmarnock, from where driven by Hamish Mc Gregor, near to Torrance, where caught the 12.6 noon train & after a very comfortable journey reached Glenfarg at 3.24 and found our room at The Stage House Inn very neat & comfortable. After a cup of tea we had an hour's stroll down to shore of Loch Shield & Loch. Tried a little sweeping, but cold & windy & little out, but took the following insects: 1—

Hemiteles? 2 ♂♂

Chalcid 2 ♂♂

Aspilota 2 ♂♂, 1 ♀.

Microgaster, 2 ♂♂, 1 ♀.

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4.7.62, cont.

Glenfinnan, W. Exmoor - dist.

Took photos of Shiremore & St. Peter's, from road W. of Hilling. 2 photos from near Laidlaw's upper Station & finished the film on journey. A chilly day, the sun not out & with strong N. wind & light showers about.

5th July, '62. Frazar Bohemia, cont. from p. 125

^{cont. from p. 125} I tried to photo at 18th of a second exposure, in poor light & light wind, drizzle. I also took photos from rocks above & to N. of the area where the plant grows. One photo, looking SW in + like that in bit Flower, but shows two small trees in foreground & the peak of Meall Mor, 2487 ft., 7 miles due S., while another shows the gap between the mountains of Sgor Thuilan, 3164 ft. & Stroup, 2988 ft., 4 miles NE. Where a line drawn through the latter gap & a line N. from Meall Mor meet is approximately the area where *Dispersia* grows & the area itself is quite unlike the smoothed glaciated area below & southwards of the plant's habitat. Beside *Dispersia* we saw *Loiseleuria procumbens*, *Empetrum*, *Lycopodium alpinum* & commoner plants & on our descent we saw also *Vaccinium uliginosum*, *Ulex europaeus*, *Salix repens*, *Salix herbacea*, *Sedum rosea*, *Beech* etc.

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5.7.62, cont. Frazar Bohemia, cont.

On return journey we took a different route & came down by the hillside, reaching the Mulling - Galloway road 1 1/2 miles N. of the hotel, seeing very little of interest except one on the side, an area of light patch of *Salix herbacea* at foot of a 2,500 ft. & barren pine-plants lower down.

Before reaching the *Dispersia* ground & near the summit of the E. slope we heard "grunts" & then three adult Ptarmigan went off, as grounds do, with a great burst of noise.

Reached hotel at 7 PM. after a memorable day, during which we were somewhat hampered by a light wet mist & drizzle at times, which obscured the higher ground, but was never dense enough to prevent us seeing where we were going. Much of the area is very steep, with rocky scarp, tors, etc., which have to be avoided. The lower ground was very severely smoothed by ice & no scars or loose material visible, but here & there around the 2,500 ft. contour were small areas I considered to be "nunetaskers" one of which was where the *Dispersia* grows & in the midst of the area being found a massive, massive, massive, carefully "planted" by someone, the wind reaching being -10 degrees Centigrade. We were subsequently informed by Mr. Halkinshaw that it had been put there by a lady botanist from Cambridge, who accompanied by Mr. H. H. Clark of Glasgow University, etc. etc.

128.

5th July 1962.

Left the Sledge House Hotel, Igarka, West-Exmoor, Devon, at 9.55 A.M. with the intention of seeing *Diapensia* *leptophylla* on French Blain, with information I had gathered from the photo of the habitat in John Raven's "Mountain Flowers". From the hotel we went up the road to the railway bridge & the lake to the river & went steadily uphill on a course parallel to the lake behind the hotel until it descended, the W. fork appearing to come from a wide shallow heavily glaciated bowl-like hollow & the E. fork going straight up to the NE. We crossed the W. tributary & for a time went parallel to the E. But eventually we were too far E. we veered NWwards along the slope of the E. loop of the ridge near the crin of French Blain (2489 ft. on map) above & on our right. We proceeded NW & eventually climbed a top of the E. loop of the ridge which is above 2500 ft. contour & continued until the view down to Loch St. Gill seemed to agree with the photo while in front of us was a small area of unglaciated rocks, which I felt was the area in foreground of the photo. So now I felt we were near the *Diapensia* I said to Daisy "to sniff" & 20-30 yards further on I saw the first plant of it. We then searched & Daisy eventually found one plant with 2 flowers & one with one flower both of which

[Turn back to p. 226]

6th July 1962.

129.

A dry & calm day, after a dry night, mildly dry, chilly in forenoon but warm in afternoon & all sunny after 5.30 P.M., but then with chilly NW. breeze.

Bought two "Penal" rail tickets for 15/- each from Roy Bridge to Belling & went by 10.24 A.M. train to Linnis & collected in Linnis, Hanna estate from arrival at 11.15 till 5.30 P.M. in three sections as follows:-

1. From entrance gate 1/2 mile S. of Linnis, through "the garden" to our usual place near Loch-nu-Pala 11.30 - 1.15
 2. Margin of the Loch at SE side 1.45 - 2.30
 3. From hilltop S. of two back to starting point of one & west taken in case of station 2.30 - 5.30.
- None in killing bottle nearly all taken at 1, but *Diapensia* taken along swampy shore of Loch at 3. In killing bottles!

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Arising

Taken at 1.

131

Arising

Taken at 2.

Taken at 3.

7th July 1962. A nice dry calm day, but almost entirely
 dull, after a calm day, misty night.
 Went by 10.24 train, yesterday, to Loch Ailort, & spent
 day along the coast for a mile or so N. of the station. Collected
 in salt marsh at mouth of River Ailort till lunchtime = 1
 & then later in next bay to N where the All na Brìche burn
 comes down a wooded glen (of birch, oak, Salix & Rowan)
 to the sea & in which wooded area are large spongy
 patches of grass, Sphagnum, & many other plants, including
 a species of Glycyrrhiza. In the more open places a kind of
 salt marsh occurs, & everywhere much Scutellaria
 galericulata. In the salt marsh at 1 there is much Polygala
 vulgaris & Juncus as well as some loose stems
 of a very curious dwarf form. Carex extensa (typical) occurs
 sparingly in the second bay & much Armeria & Glaux
 everywhere. Collected associated mosses on a tidal islet, a seaweed
 growing above normal HWM, & 2 mosses off oak at lunch place,
 & Leucobryum? in wood.

1962

Loch Ailort, cont.

Insects taken at 1 (almost all in salt marsh), 11.30 till 1.0 PM

Insects taken at 2 (woods down in glen N. of 1.) 2.0 till 5.0 PM.

Myrmica

3♀♀ 1♂? found at HWM under log: no others seen.

7.7.1962, cont.

Loch Ailort, cont.

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136 8th July 1962 - Sunday
A very warm day with at times slight S.W. breeze. This was
arriving & staying numerous on ground below 500 ft.
Left Stage House Hotel about 10.20 & crossed the Arvon
Schlatack by a wicker bridge a little below the hotel & made our
way across the All-va-dried & up N.E. slope of Ant Bleich,
seeing 2 junipers, one patch of Black Fern, one of *Thalictrum alpinum*
one of *Vacc. vitis-idaea* much *Antennaria*, *Lycopodium alpinum*
& *Eupetrum*. Had lunch near the summit, alt. ca. 1750 ft. & later
went on & down to west section of the 3 lochs shown on map, but had
not time to visit the most western loch near the very nice-looking
cliffs W. of same. In the E loch saw large of *Lobelia* & long floating
leaves which looked like a *Spergonium*. Then had afternoon
tea & started home by a route nearly following the All-va-dried.
Reached hotel shortly after 6.30 P.M.

After crossing the bridge on way out we found some logs of birch
on which I took two ants (*Leptothorax*) & saw many
piles of sawdust (freshly pushed out of the timber) but no insects.

Now some place I took a *Homocidus* & not far away
a *Selys*.

On return journey I took an ant
on rock near the E loch (=) & during dinner
at the hotel saw two winged *Agrocyba* of ♂ & ♀ on the window
sill. Collected specimens of Juniper, a grass (=)
& a *Euphorbia* near summit.

137 9th July 1962. A very hot sunny day, but some rain (137)
brought off our visit to Arvon, when we went by 10.45
train from Glasgow. I returned by 6.30 pm train.
Spent the day along the shore within 2 miles N. of my station.
I swept mainly in extensive salt marsh between Arvon Hotel
& Kippford House, where most *Scirpus tabernaemontani*, *Juncus* spp.,
& other salt marsh plants, such as *Arthrocnemum*, *Antennaria*, etc., but
no sign of *Loxia* or *Loxia* on *distans*. In west bay
lies a belt of *Loxia*, *Scirpus tabernaemontani* above them
which with some patches of *Loxia* & *distans* marsh
before & adjacent to the flood & sea water during storm, but
full of "flood water" species including the *Loxia* group
Loxia *viridis*, *Loxia*, *Loxia*, *Loxia*, *Loxia*, *Loxia*, *Loxia*, *Loxia*,
like *distans*!! & *Loxia*, *Loxia*, *Loxia*, *Loxia*, *Loxia*, *Loxia*,
& some of the *Loxia* group (=). In the salt marsh on
nearby in the *Loxia* belt just above I swept the
following: —

Salt marsh, etc., on coast just N. of Arvon,
W. Arvon Hotel.

13th 9.7.62, cont. Arriving, (2) W., cont.

10th July 62. Left Glenferris at 8.50 AM. train
+ arrived at Glasgow (Queen St.) at 2.15 PM.
Met by Stanley Skellern (late Stranmillis Training
College, Belfast) + spent afternoon + early
evening with him, his wife, + Brian (aged 70) + left
at 7.30 PM. Belfast boat. Very warm in morning,
but became cloudy + windy later + rain started
in Glasgow about 10 PM. + continued. [Rain
commenced at Newcastle, Co. Down, about 9 AM]
11th July. Met by George + son at Belfast at
7.30 AM (at the morning!) + after breakfast with
him + family, he drove us to Newcastle. Rain arrived
at 10 AM. in thick sea-mist + E. breeze, but rain
was over + no more fall during day + mist gradually
lifted. Spent day getting plants brought from Scotland
planted - mostly in pots! - + tidying garden.

12th July 1962. After smaller chilly night + poor weather
forecast yesterday it looked as if rain at Belfast,
but by 11 AM it had become m. sun + sun out

13th July. Got plants + books home + started to get plants
from the bank from Scotland planted (mostly in 6" pots).
G. + family arrived about 4 PM. Philip Wood + M. Caldwell
came in evening, to ask for + about + about to arrange programme
for week-end.

14th July. A dreadfully wet day, with SE wind, but not cold
+ wind fell in afternoon. Decided that Wood, Jerry,
+ I go to Tollymore Park (M. Caldwell could not
come owing to his sister's illness) + so we set off at ca.
10.30 AM. in Jerry's car + drove to car park. There
was road straight to the Spink house (or the castle) then +
followed it up to the top of the Park + back down
to the upper bridge + to the broad wood at top of Riggall
Park + on back to car park, but found a car + bus.
Heavy rain at the time + all very wet. Jerry
confirmed our previous identification of all the flowers.
15th (Sunday) July. Wood, Jerry + I left home at 10.30 AM
+ Jerry drove us to the Spink house. I then made my
way across W. end of Riggall Park W. to the Raven Tree
thicket where Stuart + Brian reported *Loiseleuria filiformis* at
least feet. I found a large suitable flat habitat but could
see no large sedge + pushed on to Eagle Mountain where
I had heard just above the "Blindy Gap" which is an overflow -

1402

cleared "flowering" southwards. Used a ferry made in opposite direction for Lough Sherragh. I did take S. & P. reported on abundance of *Isotria*, but they found none although they went all round the lough. This delayed them & they had lunch by I thought & then set out for to join us at Eagle Mountain & look for *Lactuca alpestris* recorded by S. & P. Bui, late & I having left by water at home & so started back to see earlier than I supposed, we did not meet.

I did not go up the mountain, but they did & found the fern & subsequently gave me three roots & one of a pale-sealed form of *L. delatata*, which I have planted on N side of the wall in back garden where there is bottom garden next Mr. Brown's.

Ferry also gave me a leafy form of *Juniperus communis* I had brought from the West where he was with B.S. & P. & subsequently with him Scamell at Buncrana.

16th July. Ferry & I spent most of day on the road hill between the Sliderry Ford & the sea, S. of Marlough House & while he botanized I swept & filled two buckets with hymenoptera - one before & one after lunch - the

15.7.52, cont. S. & P. S. of Marlough House, 3 hours. (141)
Latter means the sea & the former (Mr. I) nearer the road. Also collected a few insects in salt-marsh at NW end of the bridge on "Ferry Quay" but had little & few, & some distance about "Ferry Quay" to reach the sea, saw ant off from the tide & so only took a very few insects. [16 insects taken from 1 & 2 Ferry Quay, 15.7.52]

Insects taken at 1, i.e. nearer

Sliderry Ford & before lunch, 11.15 till 1.15 P.M.

Dryinids: 3000, 1/4 *Anteon* spp. =

Phaenocarpa ♂ red abd. ant. 24 =

Atractodes ?? ♂ ant. 23 =

Pezomachus ♂, ant. 20, wingless =

Pezomachus ♀, ant. 29 =

Same as ♀ taken in dunes on (i) 26.6.1961.

Mesochorus of *nigropus* ?? ♀, ant. 27.

Brachymeria fulvipes ♂ + ♀^{not mtd.} and two other ♀♀ = *B. osculator* ♀, ant. 21, dark wings

or *B. migrator* ♀, ant. 30.

Apariteles cf. *impressus* ♂, white wings

Centistes fuscipes ♂, ant. 18.

Opius minutissima with 1 minute ♂, ant. 22.

Dacnusa areolaris ♀, mtd. Ld. of *erythraea* Nixon, ♂, ant. 25, hind feet red.

Coelinius viduatus ♀, not mtd.

Aphidius spp. 200 or so: not mtd.

14² 1) 16.7.1962, cont.
Murdough House, dunes, Co. DO, cont.
Minute Proctos & Chalcids etc. as & one ^{Diapriid} ~~Diapriid~~ only 1 (~~Diapriid~~) mtd.
= Spalangia sp.

Taken at 2. (dunes, nearer sea).
Tachyplesus pectinipes ♀
Campoplex = cinctus ♂ on Spurge, others seen: none taken
C. albus var. albi, common; none taken
Pentapleura fuscescens ♂ & cephalotes ♀: one of each not mtd.
Anthemis sp. ♂
Lissonota gracilior ♂, ant. 31; tergite much less matt than in annulata!
Hemiteles sp. ♂, ant. 24.
Campoplegid ♂, ant. 35 = angitae?
Apanteles falcatus ♀ & 4 others = Ap. cf. incidens Raty 10, 2 ♀♀.
& Ap. pallipes? 1 ♂
Perilitus cf. actiops 5 ♂♂, 3 ♀♀, none mtd.
Meteorus rubens ♂, not mtd.
Centistes fuscipes ? ♂♂, ant. 18, 18 & 19.
Aspilota cf. lunata ♂, ant. 18, but not typical!
Dacnusa laciniator ♀: not mtd.
Coelinius viduus, ♂♂, 1 mtd. ♂ & 1 mtd. ♀: former mounted.

(12) 16.7.62, cont.
Murdough Ho., dunes, Co. DO, cont.

Aphidius ♂: not mtd.
Proctos a few: 1 Belytid only mtd. = Belyta cf. depressa ♂.

Chalcids, also a few: none mtd.

Dipterons 1 =

Taken at 3. Salt marsh, NE. of bridge at Stodden Ford, Co. DO.

Hemiteles ♂

Apanteles ♂

3 Chalcids

None mounted!

1 mtd. Procto.

17th July. A dry day! Jerry left at noon to pick up
a friend at Mull's Barrow & continue his holiday
in Ireland for another 10 days or so. I spent the
afternoon clearing up the garden.

18th July. Another "south-easter" with gale & rain all day.

19th } Both nice days with some very hot sunny spells.

20th } Spent both in garden where much to do; ^{on 19th} dug first
potatoes on trial, but found ground beneath dark dry
& tubers small - one plant each Home Guard, Walter
Chieftain & Ballydoon, from rows planted on 14/4/62.
Had bonfire & cut lawns on 20th.

14th 18th - 24th July 1962

During the previous 24 hours the weather has been with a good deal of rain & I put 24 plants in rows of 4 each - 6 rows, 2 rows smaller, making 2 rows of 12. George & family arrived to spend a fortnight on afternoon of 21st & we dug on first potatoes the previous day & on 23rd I dug another plant of *Ballydoon* in same plot & got a very small tuber & quite satisfactory crop - 25 tubers & only 2 or 3 not worth cooking - of which some were small - few small, possibly due to the soil being so hard & the plants being over the top, moulding the up, which is said to prevent them being reached by the potatoes or other root-forming, blanching. Today, 24th, we had a continuous drizzle all day with very light SE breeze.

Received ^{on 14th} a ♂ *Ophion* from E. S. A. Boyner bred (on 10.7.62) from pupa of *Braconia caesia* taken as a larva on *Silene maritima* (one of the Blackbills, S. Kerry, on 7.7.1961, on *Silene maritima*). It was lost to view of *Ophion* *luteus* in Schied's key, but is a very deep colour, nervulus absolutely interstitial, nervulus interrupted distinctly below centre, with small keels on propodeum very well developed.

25th July. Drizzle all day.

26th July. A nice day here, but rain all day in central parts of England. Finished digging 4th row of potatoes planted on 14/4/62 & got good crop from both the Ballydoon & 24th at top of row. But some "hag" along with beer & had good bonfire. Got back last photos of Scotch holidays & in spite of camera not being closed properly unless the first one spoiled.

27th July '62. Another dry, but entirely cloudy day. Working in forenoon, & I cut both lawns & removed *Panicum* from front garden along road, where *V. tricolor* had run wild & smothering the *Agave*.

28th July. A very nice, but nearly dull day, windless with very fine, faint, drizzle about 9 PM. Got rid of the bonfire, snuffed path by lawn near garage & after tea George & I repaired, with *Typha* ground. G. W. Patchford called at 8.30 PM, & wife & daughter having arrived about 5 PM. at caravan camp along Tullybrannigan Road.

29th July. Sunday. A very warm & for most part sunny & humid, except when on shore E, wind cooled the air at times; later in afternoon wind quite strong from S, but again dropped & air became lifeless towards night. G. W. Patchford, wife & daughter spent the evening with us & he & I talked "snails". In afternoon took colour photos (2) of *Geranium pratense* and *Urtica* in pale sun at 100th of second exposure.

30th July. After some rain at night, another very warm day with cloud & sun; showers in other places probably, but none here, wind S. & fresh, later W. & moderating.

31st July. A nice day, with much cloud, a few light showers & fresh W. wind. All left home ^{at 10 AM} in George's car & drove via Donpatrick to my niece's at Donaghadee - i.e. Jennie Lee at "Coondara"!

146. 31.7.1962, cont.

Calling in the way for a hour at Daisy's brother (Lisburne) for a hour. Arrived at Lough at 12.30 noon & after a hour in garden had lunch. Left at 1.0 P.M. & after passing Collier drove to shore of Strangford Lough at Ringneill Quay where had afternoon tea & spent an hour, during which I swept the following insects: —

Insects swept on shore of Strangford Lough a few hundred yards SW of Ringneill Pier (Stewart's Bay), about 5 1/2 miles SE of Collier, Co. Down, 4.30 - 5.30 P.M. Labelled ^{Ringneill} Co. DO. AWS [17 insects etc. & these labelled 6.1.1963.] 31.7.62.

The following plants present: — *Statice*, *Artem*, *Glaux*, *Spergularia*, *Urtica*, *Mentha*, *Sonchus asper*, *Atriplex* spp., grass, etc.

Saw fly: black ♀ = *Melipotis* ^{subsequently named by R.B. Benson} *calycia cerasi* L. ^{all black legs.}

Phygadeuon ^{ant. 22} ♂: common shore species? =

Meletema sp. ♂, ant. 21.

Pezomachus sp. ♀, ant. 18.

Coelophylax ♂, ant. 25, no marked = *Hythya* *pumilio* Haliday ♂.

Bracon *theaeus* ♀, ant. 19.

Apanteles 2 = *A. cf. apicatus*? 2 ♂♂: both with legs with 2 pairs of black legs.

Pentapleura pumilio 2 ♀♀, one only with: ♀, ant. 19, legs bicolorous.

Aphaereta cephalota 2 ♀♀, ant. 18 & 20.

Aspilota rubripes, small ♀, ant. 15. *A. (S.) cf. concolor* ♂, ant. 21.

Aphidius 3 = *A. cf. parvum* Haliday? ♀, ant. 17.

Aph. cf. renominatus??, but very dark specimen: ♂, ant. 19, ♀, ant. 16.

31.7.62, cont. Ringneill, Strangford Lough, Co. DO., cont. 147.
Proctos. *Exochus* sp. 2 ♀♀ & some minute: none mtd.

Chalcid ca. 50: none mtd.

Red Devil: *Apanteles* sp.

Left Ringneill about 5.30 - home 7 P.M.

Saw ♀ *Bombus pratorum* (dark abd.) in garden & Lough area!

1st August 1962. A warm, dry, day, with shower about but a on-shore wind kept them away from here. Spent forenoon making bonfire & got rid of lot of rubbish including the two barrels load of *Viola tricolor*. Took out of front border on 27th July & all that was in greenhouse, etc. Dug row of Ballydoon potatoes in top border - planted on 14th April.

2nd August. After some rain at night, a fine warm forenoon, during which time I dug the rows of *White Chieftain* & *Home Guard* potatoes planted on 14th April in top border & got very good crops from the six plants in each row. Showers developed later & were heavy, but did not last long.

3rd Aug. Very wet all day from dawn, no wind, till a clearance came from W. about 4.25.

4th August 1962. After a clear & windy night (W. wind) a drizzle & shower in forenoon. But all further back down after breakfast & before the first shower. I missed a few of potatoes in the widgeon also before dinner, though a few light shifts of rain fell. A very severe & long shower, with some hail, fell between 1 & 2 P.M. & later various lighter showers fell, but by 7 P.M. wind had dropped & they cleared & we were showered full before bed time & clear, rising all day! All party left in George's car at 3 P.M. to visit Margaret's mother & sisters at Ballymore & spent rest of day with them & had tea. Home 8.15 P.M.

5th August. Sunday. After a fine but breezy night, a nice day except for a short heavy shower at 3 P.M. Wind W. fresh in forenoon, decreasing later; considerable warm sunny periods, but air fresh & cooler than of late.

6th August. After a dry night & mainly fine day, but at intervals the light wind changed from W. to E. & back again & at each change a light rain fell. A very hot day in southern half of England! Spent day making lampfire & got all, & much, rabbit burrow - George & family left for home at 3.15 P.M. Day row of Dutch potatoes.

7th August. A rather dull day with occasional drizzle; wind N. light. Daisy's sister in law, Nellie Mitchell, her son (Frank), his wife (Betty) & children (Richard & Edwin) spent the day with us & (12.45 noon till 7 P.M.)

Received some Hymenoptera from Stanley Skiller now at Jordanhill, Glasgow, & follows:-

7.8.1962, cont.

Microgaster sp. ♂ "on birch tree - base killed No 46". E. 4 by 10 p.m.

Euclyptus *cinereus* Ratz. ♀ "on birch tree in garden of No 46."

Thynnus *cylindricus* Vill. ♀ "on birch tree in garden of No 46." (taken)

Microplitis cf. *mediana* Ruthe. ♂ "Ex. 1st larva 1/2" long; all green; 1st yellow, 2nd blue; 3rd red. 1st larva, 15.7.62; 2nd larva, 1st caterpillar & 2nd caterpillar on 20.7.62, i.e. some 2 or 3 days after caterpillar had stopped eating! 3rd larva emerged from cocoon on 4th Aug 1962." Caterpillar still alive on 9.8.62, but rather ragged though looking like a caterpillar.

8th August. After a dry night, a bright sunny forenoon, with very light W. NW. wind: dry till 7.15 P.M. When a very heavy shower passed over from W. Other showers during the day mixed in intensity. Spent most of day burning rubbish - bag cut in forenoon by the wire fence & Daisy's 10th year, 1st. Also dug Dutch "Record" potatoes in last row - top border next compost heap, the plants were having been dug on 6th, yielding a nice crop of good clean potatoes & kept about twice as many seeds as plants in these two rows. These planted on 16th April!

M. & Mrs. Caldwell (1) spent the evening with us & I gave him all the *Bryophytes* (& a few *Lichens*) I had collected in Scotland in June & July '62.

9th Aug. Rain came on before dawn & continued all forenoon & midday & was very heavy at times, with moderate E-SE. wind: there were several clearances in afternoon when wind veered to SW, but these always followed by renewed showers: though wind occasionally rose, there were also periods when it fell light.

10th Aug. After a dry, windy, night, a damp forenoon with light misty rain blowing in the W. wind. Fine from noon onwards & wind fell light, so that before tea I got first crop out & row of Dutch "Record" potatoes.

W. of Rappahannock dug. These planted on 17th April & yielded a poorish crop, being much damaged by July storms. After tea drizzle came on once more & by 10 P.M. wind from SW reached almost gale force, with heavy rain.

12th August 1962. After a windy (S-SE) night with rain, the clouds
about 11.00 a.m. moved to SW & we had a mainly sunny day. Strong
day, with gusts of gale force wind for periods, but no showers.
In forenoon I dug out the plot full of *Periwinkle* & *Brandybush* in border along
the house path just E of the seat, as it had overgrown itself & drained
to smother its neighbours. I will replace this with some cuttings
of *Lythrum* of my own growing. In afternoon I redug the plot
& then pruned the *Lythrum*, *Pyracantha* & *Viburnum* in front lawn.
Still "gusting to gale force" at 10 P.M. in the disgusting phrase used
by the meteorological office!

12th Sunday. A nice day, mainly sunny, with gentle W breeze, but a shower
in afternoon from 2.30 till 3.0 rather spoiled the afternoon, when we
called to the Tollymore Park, Bann at SW. angle of the Quinville plantation
& back at 5.10 P.M. Caught a ♂ *Schizomus* with band in plantation
just before the shower & a small dark geometrid moth by the house
where we had our afternoon tea. These insects =
Schizomus cf. *confusus*, ♂, ant. broken.

After tea I took some saw several insects on the little oak tree in
back garden & for it took a sawfly (*Edusa* sp.), *Edusa*
capitata, ant. 61.

13th August. After a cold night with no wind & very heavy
dew (about ground frost!), we had a calm & entirely sunny day,
with gentle on-shore breeze during midday. Spent the day
working garden & got co. of barrow load, burnt & washed
of ground frost given a local weather forecast at 6 P.M.

12th August 1962. A day made itself good day, but wind from SE
SE breeze - & thick on-shore breeze from the sea. Wind subsided the
morning to below 500 at breakfast time; the haze gradually lifted
but it was 5 P.M. before we had clear sky & some sunny
intervals in the hills. The wind was chilly & with gusts up to
gale force. At 10.00 A.M. Mr. & Mrs. Caldwell (Wals) called for us
- then car & drove us to the foot of the lane in Tollymore Valley
which leads S. to The Hare Gap, between Slieve Donard
& Slieve Donagh. From the car we walked up the lane
(no road, but very rough, to bring down granite blocks
which are shipped from Belfast to England, according to
a shepherd we met!) & had lunch at foot of cliffs on the
Slieve Donagh side of the Gap, at 1 P.M., after examining
the cliffs on Slieve Donagh side & finding no plants
whichever of any interest. After lunch we came back
to the 1000 ft. penoplane, turned W. beneath the quarry
at foot of Slieve Donagh & made our way up towards
The Windy Gap between St. Donagh & Slieve Donagh.
Crossing the valley at nearly 1750 ft. we came back
along E. slope of St. Donagh to the ford over the
Tollymore River on the penoplane & so back to the car at
ca. 5.30 P.M. Our main object was to study the
colour variation of the local *Erica* species. I had
we had noted on August 1961 & I brought
home bits of various colour-forms to grow.
During the day I became increasingly unwell &

14th E. 62, foot. Trawny Valley, Co. Down
arrived home feeling very much & with a temperature
due to a form of food poisoning. After a hot bath
I went to bed.

15th } I spent all these days in bed with very
16th Aug. } light food. Weather bright with very heavy
17th } showers at intervals. During the period

David did much work in the garden, including
clearing up the raspberry & strawberry beds.

18th Aug. I dressed after breakfast & had stroll in
garden before dinner. A bit wobbly on legs!
After dinner Mr. Caldwell helped me to plant the *Erubi*
cinerea on slope behind the seat by the burn path
in back garden, while later I put some small cuttings
into a 12" pot (in which are already 2 *Agave*)
in greenhouse, while a stack in under the bench,
the large which were without roots, to see if any
will grow. In evening I mounted a few more of
the insects taken at Larans, MP, on (2) 20.6.1962.

19th Aug. Sunday. Warm & muggy, with strong S.W. wind, after
a dry warm night. Drizzle & hill fog most of forenoon; sunny most
of afternoon; drizzle again in evening. Shortened all the year shoot
on apple & pear & down.

20th Aug. A fine sunny forenoon, but heavy showers in afternoon
in spite of which I got back lawn cut. Very humid at home
& rain very hot when out.

21st August 1962. After a fine night much drizzle throughout the
day, though I got frost down and before sunrise. Some sunny intervals
in afternoon but heavy rain later. Prof. Fred Stitt & wife (of V.L.
Dept. T.C.D.) in town, spent a couple of hours with us in afternoon.

22nd August. A very nice day after a dry windy night, but S.W. wind
very strong in early forenoon. Clearing "renewal" in lawn in forenoon,
and grass in muggys & later dug golden Wonder potatoes. W. of raspberries &
got very good crop, though tops much battered & broken by recent wind.

23rd August. Drizzle & semi-gale from S. all day till about 2 PM when sky
cleared, sun came out & later wind veered W. & increased to gale at about 10.30 PM.
Miss M. R.H. Kesteven came from Belfast & spent afternoon with us.

24th August. After a mild, but dry night, an equally mild forenoon, with
considerable sun, but heavy shower at 11.15 AM. Later wind dropped
somewhat, but the afternoon was mainly cloudy, though only a few
light drips of rain. In late evening the wind once more increased.

Spent the afternoon with Mr. Dineen & after tea gave some plants to
Joe Tizzard for his new garden at Liscannore.

25th August. After a dry, after windy night, we had quite a nice
day if W. wind was rather strong in forenoon, but there was no
showers till 1 PM & then a few lighter ones in afternoon, when wind
fell light. I started a bonfire at 10.00 & kept it going till
night & got a lot of rubbish burned. In afternoon I also
finished digging the plot of Golden Wonder potatoes, just W.
of the Raspberries, & got a fine crop.

26th Aug. Severe rainstorm at 10.30 AM, after steady rain from dawn, with strong S.W.
wind; then a sudden clearance & dry & sunny till 4 PM; later showers & rain
gale from S.W., increasing till 9 PM. During the rain-storm in morning the barometer
rose & fell about 2 in. like this W.!

154 27th Aug '62

After a severe gale from SW. most of the night & rather nice day over the wind had dropped about dawn. In forenoon I went to the garden on a special outcrop from gate & did some work on it. In the front garden. After dinner I went back to the garden & did some more work.

My row 1, 2 & 3 of potatoes planted on 20th April in the triangular patch at E end of main plot & about the circumference.

These mostly Golden Wonder & got a good crop. I have seen a few more taken from plant or compost heap in 1961, but no seed now kept. George came to tea! *Bombus lapidarius* ♂ & ♀ seen in back garden.

28th August. A very nice day with no real wind after a dry calm night. Started at front gate to clean up rocks of the new lawn & border beside it. After dinner dug another (4th) row of Golden Wonder in plot same as yesterday (see above). Later had bonfire & got a lot of rubbish burnt. *Trochilidae* & *Myiophila rostrata* ♂ & ♀ in garden.

29th August. A perfect day, after a dry night. In forenoon I had a bonfire & continued tidying up the new lawn & its border in front garden. In afternoon Mr. Caldwell & I drove up to Longleatland (between Basingstoke & Bally, which) where I thought I might get some interesting insects off the road bank surrounding the lake, but these proved to be quite unproductive, but I swept for an hour in the old quarry and on the island of the old church. We then left at 3.30 & drove via Batherston to Longleatland & Basing, very pretty day & I swept the vegetation at NW corner which grows on the same day but of the old church for an hour, but was not collecting much. Left for home at 5.30 P.M.

Fort list of insects taken in both places see opp page →

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29.8.62, cont.

Insects taken at 1, 1.2 Longleatland, Co. Down. 2.30-3.30 P.M. Many winged *Myiophila* swept & those taken & examined were either *M. rostrata* ♂ & ♀ or *M. lapidaria* ♂ & ♀.

Scarab. *Anthracinus* ♂ & ♀ 279 seen; ♂ 1 ♀ 1 seen.

Pachyrhynchus ♂ & ♀.

Ichneumon ♂ & ♀.

Phaenocarpa ♂ & ♀: one mtd. only = *H. apertus* ♂, ant. 21.

Stenomacrus 2 ♂♂: only 1 mtd. the mtd. ♂, elongate 21-seg. antennae long & parallel-sided. Segments 1 & 2 are like that of an *Orthocentrus*, then of normal *Stenomacrus*, but 3rd segment little more than 2-seg. long, therefore you get 4-seg. antennae.

Pezomachus 2 ♂♂ of *Stylus* var. mtd. ♂ & ♀, ant. 29.

Stenomacrus variator ♀, large, ant. 30.

Stenomacrus ♂ & ♀, small ♂ & ♀, ant. 21.

Aspilota ♂ & ♀ 30.8.62, none mtd.

Dacnusa areolaris 7 ♀♀ none mtd.

A. areolaris ♂ & ♀.

Proctos. about 15 mtd.

Chalcids ca. 25.

Chalcids 3.

29.8.62 cont.
 Took at 2. Long bed at NW corner of Long Island Rectory (=2), (G.D.O.)
 4.0-5.30 P.M.

- Neurolepis* sp. small, not mtd.
- Neurolepis* sp. ♀, ant. 20
- Leptocryptus* sp. ♀, ant. 20
- Brachymeria dorsalis* ♀, ant. 22
- Homocidus nigritarsis* ♀, ant. 21
- Opius* sp. ♀, ant. 20
- Alysia* sp. ♀, ant. 30, small example.
- Dacnusa* (*Ametia*) *uliginosa*, very small ♂, ant. 26. (head & culicinate, eyes small, temples large.)
- Chorebus* *conjugens* 2 ♂♂, ♀, all very small. Ant. 24, 26 & 21 (♀).
- Aphidius* spp. 13, but only 1 small ♀ mtd. = *Aphidius* (cf. *uliginosa* in place of the ♂, ant. 16-18, not mtd. H.S.)
- Proctos*, *Chalcids* (4) & *Cynipids* (4); none mtd.
- Beetle 3; not mtd.
- Hemiptera* 1; not mtd.

although some small specimens of *Chorebus* 24 & 26-segmented antennae & very long, naked cauda!

30th Aug. Another perfect day, with soft warm sun & very hot sun most of the day. I am surprised to see the bed for the first time for 2 months! Long bed of the row of Golden Wonder potatoes planted on former path in main plot on the late date of 12th June & got a fair crop, though tops very long & intertangled by recent wind, & many small tubers.

31st August 1962. Another warm & dry day, but more cloudy with low hill-fog in afternoon & light cool E. breeze. Hoed path in back garden, etc. in forenoon, & tidied up another couple of yards off the side lawn in front garden. In afternoon I continued bed work & the main-path in the margin.

1st September 1962. A dull, slow forenoon, after a warm night, but 3. wind rose before midday & drizzle set in about 3 P.M. Later wind dropped & late afternoon & night, but heavy rain between 8 & 10 P.M. Tried *Chorebus* but not a great success. A rather rainy day. In afternoon dug remainder of two rows for former path) of 4th Dec. Wonder planted on 3rd June.

2nd Sept. Sunday. A dull warm day, calm & dry in forenoon & early afternoon, but drizzle later & rain in evening. Spent part of day working plot by the side lawn in back garden, where planted things got from Daisy Hill nursery, amongst which the double mauve *Geranium* has been in flower for some time & *Diaphis* *collina* is about to flower. *Lychnis viscaria* now with many flowers, & *Phlox* "Elizabeth" in new plot near the kitchen with two flowers. *Diaphis pygmaea* in same place has been in flower for a couple of weeks. *Rhodo. fraxinifolia* (from Richmond Nursery) now in flower just coming into flower. *Lychnis* keeps on producing odd flowers. *Silene* *acuta* from Ben Bulbin has been covered with flowers for some time, & so has *Andromeda*; the *Euonymus* is now in bloom, as well as lots of other things.

3rd Sept 1962. After a wet calm night the day opened with heavy rain & with a fall of wind, but barometer started to fall more rapidly about 8 AM. Rain & partial clearing, with steadily changing, occurred & rain stopped about 9 AM.

A cold clearance suddenly came about 11 AM. Then I started working at the steps down to the house in front garden & cleared up some after dinner. I then started to dig the Golden Wonder & 'Blue' potatoes in one plot of back garden (planted 26th April) & got fair crop of former & very good crop of latter, in spite of fact that water-stem had been broken & twisted by the gales of last month. Just after tea & as I was going to cut front lawn, the rain came on again. Wind mainly E or S & very light (or nil) all day.

4th Sept. A poor day, with falling glass & frequent drizzle & showers. Kept everything wet. Due to an S-W gale with alternating cold E & very warm humid W breezes. Nevertheless I cut front lawn in afternoon & got weeds done in forenoon.

5th Sept. Quite a nice day & no shower, some hot sun, some clouds. Tried to make bonfire in forenoon, but everything very wet & it was great success, so let it go out before dinner. I dug some more potatoes. In afternoon did some weeding & clearing up in garden & prepared series of Scotch slides for show in evening, when Mr & Mrs. Malood & Miss Sample (for Thelma's Drive, as school teacher) came & spent evening. A very fresh *Bombus terrestris* seen in back garden, & a cell & a *B. terrestris*. There are now two wasps' nests by the barn in front garden & a third in the wiggly in same hole as one there last year.

6th Sept 1962. Rain from daylight till 10 AM, then clearing, & sun. The rain cleared but a fall of pressure & a fall of wind. Went to town to see J. E. Thomson & John Garrick (Glasgow) & from there to J. E. Thomson & took the up to W. G. G. (2). Then included 2 Mediterranean (2), 2 *B. terrestris* (1, 1), 2 *B. terrestris* (1, 1), 2 *B. terrestris* (1, 1). Left *Salix longicaulis* & *B. terrestris* taken at front gate. Give to the Christmas tree. This is a done of the tree!

7th Sept. After a dry, cold, sunny night, rather a blustering day with rising glass & a few light showers in afternoon. Spent forenoon clearing up side of the new house & border in front garden & all the afternoon attending a bonfire & got much wood in spite of dampness of material following yesterday's rain.

8th Sept. A dry, mainly dull, day, after no rain since late yesterday evening & wind fresh, but by in forenoon, but gradually dropping to calm in afternoon. Spent forenoon "thinning" in rock garden, which was trying to smother, and other: cut front lawn after dinner & before aft. tea: Laid bonfire & cut grass in wiggly date. Marion Forryth called & left at 5.20 PM.

9th Sept. Sunday. Warm & moist after a couple of cool days. Wind from S-SW rose in night with heavy rain, turning to drizzle in forenoon with gusts of 2 gale force. A shower about 10 AM allowed me to get a walk to Toward Lodge & back dry, but rain came on again & we had the house at 5.20, & continued all evening. Strong wind & showers.

10th Sept. 1.09 inches of rain fell at W. G. G. (2) before 10 AM & at 10 PM. Very severe floods during some period in Glasgow, other part of Scotland & in the English Lake District, but here it was not so bad. Today was extremely dull, very damp, calm, but no rain till a drizzle started at 5.15 PM. Prepared shops to the house path for *Bombus terrestris* & *Meimetus bipunctatus* due from Mr. Garrick of Glasgow.

160 11th Sept. 1962

After a wet, misty, windless night, an exactly similar day, wet, misty day. A drizzling fine drizzle persisted all day & everything inside & outside but nothing possible to do. I went to the garden, took up the greenhouse, & in afternoon fitted a stone on top of the - needed much from the plantation beside the Tullybrannigan Burn to put around the plants of *L. maculata* expected to arrive from Mr Garrison of Glasgow. As Daisy's Lenten Rose was being badly eaten by slugs I took right put down "nets" around it & on inspecting it this morning I found today's slugs as follows: *Agriolimax* (full grown), *Agriolimax reticulatus* & *Agriolimax* (one small, not adult) & finally a full grown *Limnaea stagnalis* - the first I have ever seen to the north in June 1962. Seldom before have I met with *L. stagnalis* so far from home & my only theory as to its presence in back garden near the seat on the path by the sea, is that before we came it had been dumped on our side of the burn from the back garden of the house in Shoreborough Avenue on the other (N) side of the burn, but if so how it has crept across I can't think - unless naturally it came with the plant from Daisy Hill Nursery, Reading, on 13th April last, which is possible!

12th Sept. A dry, dull & calm day, after rain in early part of the night, which caused severe flooding in Belfast, S. Scotland & parts of England & Wales, but we escaped both flood & gale. Worked at clearing up side of door in front garden in forenoon. Dug potatoes all afternoon. The last few Golden Wonder in main plot & Blue beside them & in row 5 & 6 of E. main plot show some rot but got good crop.

13th Sept. 1962. Dull & rain day after rain at night. Spent forenoon clearing up side of door in front garden & later tried to hoe, but not a great success as even the rain was - sudden! Dug a couple more rows of "Blue" potatoes & a few Golden Wonder in main plot in afternoon. Mr & Mrs Pollock came in evening to see Scottish colum plants.

14th Sept. A very nice day. Spent forenoon getting plant of 19 species ready to post to Mr Alan Garrison of Milngavie, Glasgow tomorrow. Dug more "Blue" potatoes, with Daisy's help in afternoon & did odd jobs.

15th Sept. Posted plants to Mr Garrison & went to bank in forenoon, & dug one more row of "Blue" potatoes before dinner. But frost came after dinner, but did not get it quite finished as a heavy shower at 3 P.M. interrupted the work & heralded a poor showing afternoon, but Daisy & I almost got the last "Blue" potatoes dug & did get out the last Golden Wonder (14 plants) which I had over looked (in main plot) before further showers made work impossible. Much colder after the showers & "ground frost" forecast for "sheltered spots in Scotland, N. Ireland, & N. England" in 6 o'clock news.

16th Sept. Sunday. A cold, showery day, but sunny intervals. Brought 11 Scottish plants, which have been in pots in front of garage & against the house wall, into greenhouse. In afternoon we went through plantation to Tullybrannigan Burn & picked 1 1/2 tons of blackberries before shower - there were 3 during our 1 1/2 hour walk! Also collected two clumps of *Carex graminifolia* (or *Thalassium alpinum*) from Mr Wood, to whom I sent the plant from Scotland: it came from my station for the Sedge on S. side of stream at Backe on 25th June - see p. 106 ante.

16th Sept 1962 cont.

Also received from Mr Wood plants of the old double white Primrose & a double range purple one I do not know but he says it is a very old garden plant which I am sure I saw when it was in Ireland.

17th Sept. Spent the day making a place for *Caragana graebii* by the well known in back garden & clearing up the path side of the house between the first & second loops. Also planted the double white & double rose coloured Primroses beside the double range got from Garry Hill nursery in the Spring.

18th Sept. A very nice day - no showers - after a dry night: wind light from N, but afternoon calm, sultry, with much air, though forecast given for shower first at 6 PM but in evening parts of Britain. Spent most of day making bonfire & got a lot burnt.

In evening Mrs. & Mr. H. Kirtland rang up to know if I would go to Agnew's Hill, near Larne, for *Antennaria*, to see if the plant of *Arctostaphylos uva-ursi* was still there - which I discovered on which I showed R. H. Praeger in July 1920.

In 1938 with the late Mrs. Davidson I went to see it but the path which formerly led up the cliff had gone & so I only had where on I did not attempt to climb the face of the rock necessary to see if the plant was still there. Hope to find out tomorrow. Mrs. Kirtland is to call for me at 9.30 AM. P.S. A later phone message postponed the trip to Agnew's Hill until 9.30 AM. on Thursday, 20th, & not tomorrow.

19th Sept. 1962. A very nice mild mainly dull, & calm day (163) after a similar night. Spent most of the day making bonfire & digging the first row of Kevin Park potatoes planted on the 14th April after first frost & autumn frost. Good crop, but many small ones & some tubers had produced tubers either round or a short stalk.

20th Sept. Mrs. Kirtland called for me at 9.30 AM & left me back home at 7.45 PM. She drove to Belfast & after a few minutes in her garden, to Balbrathney Park, Stranmillis, Belfast, we picked up Mrs. Marion Forsyth at the gate of Stranmillis College, & then drove through Belfast, Ballymore, & Kilsnoether (Larne) to The Star Bay, where left car & walked across the moor to the foot of the cliffs on Agnew's Hill, where had lunch at foot of the gully where the *Populus tremula* & *Vaccinium vitis-idaea* grows & the plant of *Arctostaphylos uva-ursi* grows & had lunch at 1.15 PM. After lunch Mrs. Forsyth went up the cliff, but could see no sign of the *Arctostaphylos* on the ledge to which I directed her from below. I had brought numerous pieces of the original plant which I have grown since & planted five of this on the ledges of the cliff south of the gully in that we considered the most likely spots for it to thrive.

So then walked back to the car & drove to Stranmillis. There on the western slope of this hill another plant of the *Arctostaphylos* formerly grew, but had gone when I visited the place on 1st June 1939 (see my diary!). I found the place much overgrown with scrub, including much Guelder Rose (*Viburnum opulus*), & we had

16th 20.9.62 cont. Agnes Hill & Skerries, Co. Antrim. Difficultly in finding a spot, at the spot where it grows, but eventually succeeded in finding a well-protected spot in the crevice of the rock. Having taken a photo. of the scurf from a corner spot in the Davidson's was taken on 1.6.1939, we climbed up & planted 20 pieces of the original plant (which I have grown since R. B. Greager saw it in July 1920) in the most suitable spots, say 20-30 feet above & a little to the North of the original site, which was in a horizontal crack in the rock face - now completely unoccupied (as in 1920) by *Erica cinerea*, *Sedum*, etc. Left Skerries after failing to find any *Vicia orobanch* on SE slope of the hill & where Greager & I saw it in 1920, at 5.45 & drove back to Belfast via Ballyclare & Ligonish, then by Malone Road, Sher's Bridge & Ballyclare to the Saintfield Road & home via Carrick & Ballynahinch.

On Agnes Hill I collected two roots of the glabrous form of *Veronica officinalis*, reported from Sallagh Breen by Tomlinson in 1793(?) see note by S. A. Sturges in 1st ed. of Flora of N.E. Ireland, 1888. I also brought home a seedling, *Vital* from Skerries, which Miss Hartland found growing on an open damp spot, but which all feared was *Polygonum montanum* (not *Vicia orobanch*). We had previously seen several plants of a very broad-based form of *P. montanum* not far away. A large patch of *V. rita* ides also seen in form of a large rock on SE side of Skerries, where there is some boggy scrub near base of slope.

21st Sept. 1962. A very nice mild & calm day, but extremely cloudy. Spent day trying to get potato tops, burnt & partially macerated. Jack's may beetle came in evening.

22nd Sept. Similar to yesterday, but gloomier, as a heavy down broke down & brought squalls from SW. Wind light SW. Again spent most of day at bonfire & got much burnt. Also cleaned up paths in centre of back garden at W. end & buried the scrapings.

23rd Sept. Sunday. A dull, mild day, with rain & gale forecast, but no rain fell here before tea time & the SW wind only light & fell calm after 6 P.M. Fed mice in forenoon & at 2.20 we set out for Tollymore Park carrying our sp. box. I swept in two areas. (1) the bit of old woodland on the Drive & (2) on I came down Reggie's Pad on way home. The former was very draughty & I only swept for a few minutes, but conditions were perfect in the latter & parasites seemed abundant, but I had not much time.

Insects taken at 1. (The old bit of woodland on The Drive)

Sawfly = *Pachynematus obductus* ♀. Moth = 3.30 - 4.0 P.M. [11 mtd. from 1 + these labelled 2.2.1964]

Cryptineid. 4, including *Hemiteles* ♀, *Pezomachus* ♀, *Stilpnus* of *gagula* ♂ & ♀, none mtd.

Stenomacrus ruficornis ♀♀ common, 1 ♂, none mtd. *St. ruficornis* ♀, ant. 2. { *St. maculosa* ♀ ant. 25. }

St. sp. 7 ♀, ant. 19, testaceous, seg. 3 to 6 longer than broad } Gen. et sp. ? ♂ = *Lagarotus debilis*, ♂, ant. 42. (but should be sent for this section! A.M.S.)

Plectiscus sp. ♂ not mtd. *Phygadeuon* ♂, not mtd.

Opus irregularis ♀ & one other (damaged) *Aspilota* *quasi* *complanata*, 2 ♂♂, 1 mtd. (not mtd.)

Aspilota sp. ♀, not mtd. *Dacnusa* *leucopuncta* ♀♀ common: none mtd.

Proctos. common, including *Microgaster* Hal. Six mtd. = *Exochus confusus* ?? ♂.

Chalcids: none mtd. *Leptodiplax* sp. ♂. *Acetis prolongata* ? ♀.

152 30th Sept. 1963 After a severe gale & heavy rain from 3pm we had a clearing morning with a heavy shower about noon. The afternoon was misty & we had a walk in the plantation. Rain & gale was renewed in evening & continued till bed time.

1st Oct. The gale & rain died out before dawn & after some light drizzle before 8 AM. we had a bright & very sunny day with only slight showers in afternoon. The southerly wind, fresh in morning, died out & veered S.W. in afternoon.

The migrating Robins seen first time a few days ago flying S. at 8.15 AM, were today seen in quantity between 8.15 & 3.30 AM. A few Swallows or House Martins seen during the day.

2nd Oct. A lovely sunny day after a dry night & high & rising glass. Started to clear up front border. cut back ^{also took 12 Sals. & one Sals. at oak} & made bonfire. Saw Silver Y Moth in back garden. ^{also saw 12 Sals. & one Sals. at oak}

3rd Oct. Another almost perfect day, but on shore (E) wind made it cooler than yesterday. Continued clearing front border & made another bonfire. Leggin saw the Silver Y in back garden & Daisy saw one in Miss Murray's garden in afternoon, who reported having seen it yesterday also. I also saw a fresh looking Small Tortoiseshell Butterfly in back garden at 2.30 PM.

4th Oct. After a dry night & bright sunny forenoon, wind rose from S & rain threatened, but no rain fell till 5 PM. Gale & rain followed till bed time (mild). Continued bonfire & got all wood-burnt refuse burnt before rain fell. Also did some digging & weeding.

5th Oct. 1963 ^{Remained completely dry front border with no wind & no rain} A most perfect day, large length & bright with sun in at all times. Finches clearing up front border along road.

6th Oct. Even better than yesterday, with gale S.E. breeze & for most of the day "not a cloud in the sky", but becoming misty in little about 2 PM. Spent forenoon clearing up both borders of the rose lawn in the wiggly along the Bawlin fence, where hedge of Gleditsias, Sydnies & Eschscholias planted two years ago. In afternoon I had bonfire & burnt all refuse collected today & yesterday. Red Admiral & 2 Peacock Butterflies seen by Daisy in Miss Murray's garden in afternoon.

7th Oct. ^{Sun-day} After a dull & dry night & forenoon, with smoke-haze on hills, we had a bright sunny afternoon with fresh E-SE wind, cool. In aft. we had walk in the Drimilly plantation & on way home came down to Tullygranigan Road through the field W of the cemetery, where crop of oats had just been cut, where when passing a hedge bush in full sun & shelter I spotted scores of small Hymenoptera flying round the bush & occasionally alighting on a leaf for a second or two: by their yellow faces most were apparently males of Orthocentrus & Euphyas & two caught by hand were *Proctos. lateripennis* or *Homocidus ligulatus* or *Orthocentrus*.

8th Oct. A very nice dry day, after a misty night & early morning, with cool SE-E breeze for most of the day. Delved up another gas yard of the rose lawn in wiggly along Bawlin fence & in afternoon got all burnt. About 3.30 PM a small flock of *Homocidus* flying around, but whether Swallows or Martins I could not be sure of in the house.

9th Oct. A dull misty day day till afternoon when the sun broke through. In afternoon Mr & Mrs Baldwell drove us to Glassdunmore & we walked S. past Glassdunmore Park. The coast marsh eroded & all the *Mentha* gone from stretch N. of the Park, but 2 plants found by Daisy Yards S. of same.

15th Oct 1962. After a misty night & light shower about 10 AM. cleared to sunny & in morning E breeze, after that the day was dry, but mist never lifted all day. Cleared up greenhouse, sunk part of timber cutting in soil & put in some cuttings of *Hydrangea* *Rosa* *Alnus* *Baccharis*. Brought back, & in down the smaller basket with large cuttings of *Hydrangea*.

11th Oct. Similar to yesterday, but no morning shower & it remained entirely dry & misty all day. Barograph remaining steady at about 30.3 for much of week now as anti-cyclone stays over Britain. Spent part of day taking paths near greenhouse & part helping Dring to place two large cold frames delivered this morning by Nixon. Then placed in centre of main plot in back garden where potatoes were & into one taking later transplanted some seedling lettuce she had ready.

12th Oct. A much longer day than the last few & some sunshine & very gentle E breeze, but hills still shrouded in smoke haze. Continued clearing up paths in back garden & in afternoon cut grass lawn. Under pile of weeds drying in back garden I disturbed a *Planis gamma* (Sida) path.

13th Oct. A calm, mild, rather damp day (but no rain) after a very heavy dew & cold night: considerably warmer than the week before & the smoke haze still hangs over the hills. Worked hard along back garden, & in forenoon sprayed moss in front lawn with tar oil wash after lunch & gathered stones, & before tea *Anemone hepatica* (blue) with one flower & *Rhodod. ciliatum* W. of greenhouse with several buds about to open. *Hydrangea* with several sprays of flowers & *Rhodod. "Yellow Hammer"* with one flower open.

14th Oct 1962. Sunday. A very nice, calm, dry & mild day, but only a little sun about midday. Otherwise cloudy with smoke haze over the hills. "Smoking rain" reported by B. S. C. from Edinburgh in forenoon. Barograph absolutely steady. In afternoon we walked to Howard Lodge & thence up to the farm track bridge over the hill & home. Many Antbirds, Pies came down under the big tree & brought 38 home in my pocket.

15th Oct. A lovely day, after very heavy dew & almost white frost, with light misty haze, very warm sun, & no wind. Continued to clear up sides of the new lawn at the first loop in back garden & in afternoon burnt all this & much other refuse drying in greenhouse. Saw Edna (Siga) in afternoon.

16th Oct. Two more lovely, rather dry days, after heavy dew & cold night, much 17th Oct. but sun. But back lawn on 16th & continued to make bonfires & clear up paths & lawn sides in back garden. Daisy saw a *Planis gamma* in back garden in forenoon.

18th Oct. SW. wind got up during night & breeze then dew & low haze, warm. All morning along coast, but heavy mist inland from dunes, which gradually spread & no sun after 3 P.M. & looked as if raining inland, but no rain along coast. Mr & Mrs Caldwell (No.) called for us in car at 2.15 & drove us to Sliderry Ford where left car. Then walked through dunes to the sea & back at 5.45 P.M. On outward journey kept near to the N. of our usual track & saw some new & nice collecting ground. Picked up a broken bronze pin in one dune hollow (where must flint) but not sure if it is ancient or modern. Saw full-grown Fox moth caterpillar near road on return & all the usual plants with many *Erigeron annuus* in flower & very many in seed.



19th Oct. 1962. After some rain during night & dry morning, mainly cloudy, with light N.W. breeze. The small *Chimaphila* *leucocoma* gave us on 19th Oct. by Mr. Williams of Ross Bank, with its first flower opening & a very other in bud. The large plant of *Chimaphila* *leucocoma* gave us on 19th Oct. by Mr. Williams of Ross Bank, with its first flower opening & a very other in bud. The large plant of *Chimaphila* *leucocoma* gave us on 19th Oct. by Mr. Williams of Ross Bank, with its first flower opening & a very other in bud.

20th Oct. Another dry but mainly cloudy day, very mild & calm.

21st Oct. Sunday. Mild & dry, but thick smoke-haze, with light SE breeze all day. No sun! In afternoon we walked round by S. side of Burnside & home by the shipyard & college, where I had seen some at specimen of *Chimaphila* *leucocoma* in flower. The *Bistol* *Angel* is first of late down with buds & few flowers open.

22nd Oct. A dull dry day with chilly E-SE breeze. Spent day cleaning up & in afternoon had a bonfire. Got cuttings of female *Chimaphila* to go with the male we already have.

In evening we had a visit from Mr. Boulton, the teacher in biology at the High School, Gornafree. He is interested in *Chimaphila* & other water flies & came to talk over his difficulties - chiefly concerning possible help in identifying insects captured.

23rd Oct. A wind very light & W-SW today, rain, and some sun. In afternoon we had some rain & here a very pleasant & dry day. In forenoon I continue spraying the lawn with tar and wash to check growth of moss, in early afternoon I replaced some pieces of *Sphagnum* *angustatum* & later I had the replanting, which are being fruit & here many flowers coming on, while the *Chimaphila* are bursting with flowers.

24th Oct. 1962. In forenoon a gloomy forecast, with a very nice day, some sun in afternoon & wind rose in afternoon, dry after a dry night but temperature began to fall in afternoon & a heavy dew fell during the night. In forenoon I cleared up the waste area around the garden & S. wall of garage, consisting of *Sanicula*, *Waldmann*, *Violet* & a dense growth of the *Holy* *grass* (*Hieracium*) & later we spread the brown loam of soil from compost heap over the area. In afternoon I got nearly all the *Sanicula* & *Sanicula* burnt.

25th Oct. A nice dry day with considerable sun, after a night in which one slight shower fell before bedtime, but becoming cold in afternoon as wind freshened from the north. Cleared up the plot along Anderson's garage & burnt most of the *Sanicula* from some & remainder of yesterday's bonfire.

26th Oct. After a cold but dry night, a day mainly sunny day, but with N. breeze, which fell light in evening. Frost expected & now had fallen last night in Scotland & N. of England: but frost here in forenoon & started to clear up N. side of path between rock garden & Anderson's & in afternoon had another bonfire of garden refuse.

The smaller *Chimaphila* *leucocoma* opened its second flower & the third will be opening.

27th Oct. Weather all killed by frost today but night & before clouds & a rain shower approached from NW, but a dry & blustery forenoon followed by a rain shower in afternoon. In evening at 7.15, but many of them are unable to get a bonfire going & got nearly all the *Sanicula* & *Sanicula* burnt. I had moved some plants of *Sanicula* from rock garden only yesterday. At 3.30 P.M. went to call on Mr. Linn: home at 5.50.

158 28th Oct 1962 Sunday

A black stormy day with heavy showers of sleet or rain & strong NW-N wind. In afternoon we walked round by Tupperware Lane & collected at 4 PM. Linnæus to give him a paper. ^{There is a tree of some amount of this kind} at 9 AM & 10 AM.

29th Oct. After a mild but windy day night, clear at first, cloudy by dawn, the glass, which had risen yesterday, started to fall again about breakfast-time: calm at dawn but a S. wind got up about 10 AM & by 11 o'clock rain started & a gale from S got up & blew throughout afternoon & early evening with heavy rain, by 9 P.M. rain had ceased & wind completely dropped.

30th Oct. A mild day after a mild night of SW gale, with heavy showers of sleet, but we were lucky & between 8.30 AM & 4.0 P.M. the showers kept to the N of us & we had brilliant sun most of this period, so that we both spent an hour in the town in forenoon & collected cones in the plantation above Brown & Lodge ruins in afternoon. Wind still of gale force at 9 P.M. The *Ulex europaeus* & *Rhododendron ponticum* (by the burn in front garden) with flowers open for nearly a week.

31st Oct This began with gale & showers from NW, after a windy dry cold night, but ended quite calm after 6 P.M. & frost forecast, with new trough moving about dawn. Posted parcel to J. F. Perkins & Marcus Graham after lunch & then we collected more cones near Donard Lodge ruins.

1st Nov '62. After a dull dawn, sun broke through about 10 AM, & we had a lovely mild sunny day. After the rain some millions of small flies appeared & filled the air, drifting along with the gentle on-land breeze. In afternoon we collected more cones, in evening we went to Mr & Mrs Caldwell for a chat & see how I had brought

1st Nov 1962. After heavy rain during night we had a sunny wet day with S.E. wind early, but this dropped about midday when a thunder storm occurred; the rain changed of & I had a walk to the Donard Falls, which were very fine, & other thunderstorms, then in progress towards Donard Forest, but between 10.30 & 5.0 P.M. another thunderstorm between 10.30 & 11.0 P.M., with numerous flashes which made one slight jump, but following the last three jumps no thunder was heard, which seems a bit peculiar the rain we cut off from us by the mountains. Very heavy rain fell during & after the last storm!

3rd Nov. A very nice, mild, calm day, with much warm sun, but garden very wet. In afternoon we went to look for & found a Tulip Tree of which I got the information from Johnny W. Gray, who said it had flowered profusely this year & that a branch had recently fallen in one of the recent storms & it was covered with withered flowers. The tree grows by the path from the ruins of Donard Lodge to the walled garden & we found his story perfectly true. Of the other Tulip Trees near the ruins reservoir of Newcastle water supply, we found the most uppermost & isolated tree had been blown down, but the other three have done still true. Though wasps are still about & still flying to & from from the nest in the wattle, there were no Bees for the last few days. During the last ten days I saw *Bombus lucorum* ♂, *B. hortorum* ♀, & 3 *agrorum* (2♂ or 1♀) & 3 *gervillii* (1♂).

4th Nov. Sunday After a dry cold night, we had a rather poor day with a light drizzle in forenoon, then a fine afternoon with some blue sky, but glass now falling, & S.E. wind rising, followed after tea by a severe rain squall & a gale from south, as forecast. In afternoon we had our usual walk in the Donard plantation.

from Scotland last summer, which M. B. has now married!

160 5th Nov. 1962. Very windy with SE-E gale till late afternoon, but mainly dry, then a slight drizzle in forenoon. Evening quite cloudless, but no light. Had usual walk in afternoon.

6th Nov. After a dry calm night, rather a muggy day: quite mild & almost windless, with thick mist & smoke haze over the hills, till about 2 P.M. When a slight drip started as light breeze came in off the sea & cleared a gain. Had walk in afternoon in plantation. In forenoon I cleared up a small area in rock garden around the plant of *Arabis petraea* which Frank Winder brought me from Glenade many years ago & which this year has for the first time since we can have shown signs of being happy & at present has a fine boss of healthy leaves & the remains of about 10 flowering stems, most of which bear little rosettes of leaves at the nodes. These withered stems I have laid down on ground with stones to try to get the rosettes to root, as the plant has now produced seeds. The larger *Xmas Cactus* has today its first & second flowers open & so is not quite so far behind the smaller plant this year!

7th Nov. Same as yesterday: mild, misty, mainly dry, with slight drizzle for half an hour at noon. In afternoon we brought home 3 bags of leaf-mould from wood near Toward Falls - the first this winter.

8th Nov. A rather nice calm & mild day, after a very heavy dew during the night, but still a lot of smoke haze about & only a little sunshine. Wind variable & very light, but NE breeze in late afternoon.

9th Nov. 1962. Same as yesterday - mild, dull, damp, with hill-fog but no rain, & light variable wind, though at times mainly fairly brisk from NE. Some leaf-mould!

10th Nov. Very like yesterday, but with a rather strong & chilly E wind, still dry after a dry night. We awoke this morning to find the big ash tree in front of garden & some other large trees which had been in blossom & so had R. forsythia (3) in front border & front avenue & some thickly covered with fallen leaves. Planted out in gaps in some ^{in back garden} hedges (3 opposite Brown & Dickson's) & 2 in front - rooted 1 year old cuttings of *Spirella* & put in about 16 slips of same given me by Mr. Smiley. Brought home more leaf-mould in afternoon.

11th Nov. Sunday. After a fine start, the day became colder about noon, with strong E wind, some drizzle & clouds at intervals from then on. Had walk in plantations for an hour in afternoon.

12th Nov. A colder, drier, but still day; no appreciable wind & the variable but at times E, breeze. In afternoon had "Projector's" nurse to the nursery nursery & then collected leaf-mould. In forenoon continued to clear up the sedge plot. Flashed out at base of main stem on the double cherry pond wall last year from Toward Nursery.

13th Nov. Entirely dull from 9 AM onwards, after a clear, dry, moonlight night but no frost here, somewhat dry till 11 AM anyway, but a very frost from NW promised for tomorrow & dry, with light NW-W breeze, falling variable in afternoon & windy again in evening. Staked bonfire at 10 PM & the rest burning at bottom & got a lot of garden rubbish burnt. In afternoon brought home 3 bags of leaf-mould, dried on fire, weighed turned the scales at 10, 10 & 13 lbs. or say 25 lbs (10 1/4 + 10 1/4 + 10 1/4) nett.

14th Nov. An unpleasant, cold, windy day, dry, with rain during middle part of the day, but we collected leaf-mould in afternoon. In morning I posted box of *Aspidistra* from Doris, Glen W., & various *Chelidonia*.
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162 15th Nov. 1962. After a very cold night with some snow showers on the hills there was a little thaw to about 10 degrees but we had no frost here, the day was cold & sunny with light NW wind from 9.30 AM when a snow shower fell over the hills & we got the edge of it. Later about 5 PM there was a further shower. Collected leaf-mould in afternoon.

16th Nov. Snow showers, quite more snow on the higher ground of the Moors during the night & at one time we had very heavy & continuous rain from long before dawn until about 3 PM, when wind shifted from S to SW-W & rain ceased & we had a lower walk to the Howard Fell & home through the park & plantations.

17th Nov. Wind about 2 PM another wet cold day, with strong NW wind (gale & rain in Scotland & N England), but later dry with a clear sky. Nothing doing!

18th Nov. After a cold dry night with quite a hard frost, we had a cold but entirely sunny day! Sunday. Ice on the tubs at greenhouse for the first time this autumn & 1/4 inch thick.

Both the waterfalls, those on each side of Thoma. Mt., frozen & no thawing all day in the shade. At a little before 2 P.M. as we went out for our usual walk, the shadow of Sherwood just covered our house & garden, but not those in Sherwood Park & Sherwood Av. only 100 yards from our gate.

19th Nov. After a very keen frost, a bright & sunny day with light N.W. wind, no cloud over us & none till it had gone behind St. Bonedaght. Took the usual transpiration chosen for James card to Thornton's (to be sent to Kodak Ltd) in morning. In afternoon we collected leaf-mould. One inch of ice on tubs today.

20th Nov. 1962. A very wet day, with rain & sleet falling from early in the night & heavy rain in the day with a little sun, mostly over. After stopped falling early in afternoon so depression passed southwards & with it, nothing doing in garden!

21st Nov. Not a bad day, after a dry calm night, without frost, but some snow still on hills above 2,000 ft. Quite dry & with considerable sun from 10 AM till we went behind St. Bonedaght; then cloudy & with a certain amount of damp fog or mist. Spread leaf-mould in forenoon (being covered over of Dublin near Anderson's fence & dug up those at foot of back garden); in afternoon we collected more leaf-mould.

22nd Nov. A dull mild, calm & dry day, after a mainly cloudy night with a shower sometime. Becoming colder as the day advanced, with hill-fog & mist on sea & low ground, damp, but no rain during daylight. Collected leaf-mould in afternoon.

23rd Nov. After heavy rain during night, a cloudy, mild & muggy day, with much drizzle & hill-fog, wind light SW, increasing in evening to moderate & then dying down somewhat at bedtime. Could do nothing in garden as too wet. Had walk in plantations in afternoon. In spite of warmth, still snow in gullies E. of the Eagle's Rock on St. Bonedaght & on N. face of St. Bonedaght.

24th Nov. After more rain during night, a calm, mild, misty morning, but soon turning to light drizzle & a light & colder NW breeze sprang up & this continued till dusk, although clearing all day & a little real rain fell about 3 PM.

25th Nov. Sunday. A misty, cloudy, very damp day, but no rain.

26th Nov. Also dry & brighter & like yesterday - calm & damp. Barometer now up to 30.7 & still rising. Did some pruning in forenoon & we collected leaf-mould in afternoon.

164 27th Nov 1962. A very nice, calm, dry day, but cloudy, only one or two brief glimpses of blue sky; mild after a calm & dry night, as an anticyclone moves West. We will accept N. Scotland, but the barograph moved back a little during the day, as if weakening or moving south. In forenoon I transplanted the *Rhododendron* for beside the steps down to the lower front garden a couple of yards across the front gate & to beneath the ash tree. I also transplanted the yellow-flowered *Cistus* from upper path in back garden to replace the dead *Rhododendron* in front border. In afternoon we collected leaf-mould.

28th Nov. Similar to yesterday, after a dry calm night, but with light NW-H breeze & a little colder. In forenoon I distributed leaf-mould in front border & planted more seedling *Barbaris* along foot of *Rhododendron* fence - these seedlings are a lot of the hundreds growing on front drive beneath the ash trees & "sown" there by the droppings of the Waxwings which sat on the tree after feeding on the *Barbaris* berries along front border wall. In afternoon we collected leaf-mould.

29th Nov. A very nice dry day, with quite warm sun, but cold & NW breeze, after a dry, calm, night. In forenoon Mr. Caldwell (1) came to remove leaf-mould (if any found) from the cordons "Comfrey" near root house, in an attempt to make it flower & lessen growth. No leaf-mould was found, but he removed a couple of *Rhizis* roots, tending to go downwards. I then distributed yesterday's leaf-mould in front border. In afternoon we collected more leaf-mould. By morning's post I received a letter from Lois K. Smith of Canada Dept. of Agriculture, Research Branch, Ent. Res. Sect., Central Experimental Farm, Ottawa, asking if Holiday's type of "Barren" *laricis* (i.e. *Stenomacrus laricis*) was in net near Dublin. I replied "No" & told her I would send her a ♂ & ♀ of *laricis* (Holl) Morley & informed her of George Patterson's intention to revive the *Orthocentrus*, which task is apparently her own. My letter on "Air Letter" & will post tomorrow.

30th Nov. 1962. Another very nice dry day, though some at first, but the sun was out & it felt very mild. In forenoon I distributed leaf-mould in front border. This completed the top layer of leaf-mould in the front garden & back & will stand some light to medium rain without collecting the afternoon. Since Dr. Gibson at 1.45 & it was agreed & arranged I should be at 2.00 for the *Stenomacrus* larvae tomorrow for further inspection of the matter & I had one more round of the morning.

1st Dec '62. Was at *Stenomacrus* at noon for inspection by Dr. Boyd & home at 1.30. In afternoon we had work in plantation & felled some chips left by forester following felling operation. A dull dry day with SE wind & some haze in hills, therefore colder & not so pleasant as yesterday.

2nd Dec. Sunday. A cold day, cloudy & very windy, cold - wind fresh to strong SE & S. In afternoon we had work in plantation.

3rd Dec. Another dry day, with very strong S-SE wind, but some weak sun & not really cold. Wind dropped about 4 to 6 P.M., but again rose about 7 P.M. & again came off after 10 P.M. Took two of the 2mm Kodak colour prints back to Thornton who agreed they were unsatisfactory & said he would return them to Kodak Ltd. with complaint.

In afternoon collected leaf-mould after George departed - he had been on his fortnightly visit to Housing Trust estate & then lunch with us.

4th Dec. After some rain at night another dry day with SE wind for the most part but occasionally a SE gale came off to sea & a haze lay over the sea all day, as if wind was SE and there some pale sun at times, not cold though most of England (except west coast) is in "freezing fog" for last 48 hours!!

Had breakfast - forenoon & collected leaf-mould in afternoon!

166 5th Dec. 1962. After a dry & clear night, quite a bright forenoon with much sun & S. wind. During afternoon the wind backed to S.E. & rose then fell almost calm & finally after dark rose to gale force & still blowing at 11 P.M. In forenoon I distributed leaf-mould & then trimmed the bank of the wee burn in back garden along back wall fence & in afternoon I burnt all this & some other rubbish.

6th Dec. A nice dry day after a dry & windy night, wind fairly strong S. - S.E., dying away in evening. Stuffed several "cat holes" in fence which necessitated some clearing along the wee burn & prepared bonfire of same. In afternoon cut both front & back lawns as grass quite dry & then had bonfire.

7th Dec. After a fine night, a red sunrise & strong S. - S.E. wind, dull, with hill-fog & rain coming on about 2.30 P.M. Lasted till wind veered about 5 P.M. to W. & then dropped to calm; rain also stopped & barometer turned up at same time, but came on again later!

8th Dec. After very heavy rain all night, weather cleared about 10.30 A.M. & we had no more rain, but very high S.W. wind prevailed all day in spite of glass turning up about 8 A.M. Nothing done in garden.

9th Dec. Sunday. A wild day, after a very wild night with frequent rain, hail or sleet squalls, but no showers fell here during daylight & we had much sun in forenoon. Considerable snow on top 500ft of Glen Doonard at 9.0 A.M. Wind S.W., veering NW in afternoon, with gusts of gale force all day & evening. In afternoon we had a town walk in the plantations, where there was some shelter. Cold!

10th Dec. A nice dry, sunny, winter day, even if wind was NW. & fresh & cold. Collected leaf-mould in afternoon; in forenoon I cleared up under 9th wee burn in front of garage. The wasps near the ash tree going & coming freely to the nest.

11th Dec. 1962. After heavy rain & strong W. - NW wind & damp fog, cold & dull rainy day. In forenoon I had bonfire & got all yesterday's rubbish burnt & now more stored in grain house. In afternoon I visited Mr. Thomas. The *Hebe* in back garden now in flower again in flower - the tree being the seedling.

12th Dec. Dull & rainy day in forenoon, but clearing after rain with dull & sunny 1.40 P.M. & then showers. The forenoon was fine & cold & sunny, with moderate N. wind, but from noon onwards fresh snow. Flowers, however, & all 6 P.M. in view of some light frost & back to rain. In forenoon I stopped work & in afternoon, while I was on duty, I saw 1000s of *Hebe* & *Hebe* in flower, which was very much to be expected.

13th Dec. After a wild stormy night with N. gale, but day, a dull early morning, but soon brightened & we had some sun, but a little N. wind continued all day. In afternoon we gathered sticks in the woods. Gale continued all evening.

14th Dec. After another stormy night, a day, dull stormy day, with wind backing from N. to W. & temperatures rising about 10° F. In afternoon we collected leaf-mould & in forenoon I finished pruning the cordons apple & pear. There were today two fresh flowers on the *Eucalyptus* in the wiggly & it has kept on sending out odd flowers for some weeks after its proper season for flowering has over. Very stormy all evening!

15th Dec. 1962. Today I commenced my 50th visit around the river in the park-ship we call "The Earth". A very wild but mainly dry day. Severe W. gale most of the day, after a calm wild night with heavy rain, but quite mild. In afternoon I had a walk in the plantation, while Diana did menages. Electricity supply failed about 5 P.M. & was off for over an hour, as in other districts according to BBC. Severe storm reported also from all parts of British coast.

16th December 1962. The gale moderated early in the night & was followed by a sunny day, but NW wind had an edge to it which suggested snow. The sun, however, was warm while it kept above the hills & later the wind dropped & we had a pleasant walk on this Sunday afternoon in the Drinahilly plantations where tree-cutting by the Forestry Dept. is once more in progress. No damage seems to have been done about here by yesterday's severe gale, but much in other districts reported from all over British Isles.

17th Dec. After a dry calm night & early morning with a red sunrise - a fatal sign in my opinion! - conflicting winds cross between 10.5 AM & a cold drizzle fell for rest of forenoon, during which I sent & distributed the usual Xmas Holly to the Ginn, Henderson, Murrays & Miss W. Collier. In afternoon which was a day with gusty SW wind we collected some in Doon & Co. Lanes, also a bag of leaf-mould.

18th Dec. A cold windy (NW) day, but no rain. Collected leaf-mould (alone) in afternoon. ~~distributed~~

19th Dec. Very cold, drizzly in forenoon; getting milder in afternoon when we collected leaf-mould: wind W. & moderate. Rain promised for tonight.

20th Dec. After heavy rain from SW during night a very mild damp forenoon, but no actual rain fell all day - only one light skiff during afternoon. In forenoon I collected a bag of chips left by the forester in plantation & distributed Tuesday. Leaf-mould. In afternoon we collected more leaf-mould.

21st Dec. 1962 A very bright & dry sunny day after a clear night, but one frost here, with light to moderate cold at night, drying away in morning. Clearing up rapidly all day. Distributed leaf-mould in forenoon & collected moss, alone, in afternoon.

22nd Dec. After a early morning frost, with frost laid ice on trees, the day soon turned mild, with one to two inches of rain & strong, heavy rain. Wind light SE-S. George & family arrived for Xmas at 12.30 noon. In forenoon I distributed leaf-mould & collected some in afternoon.

23rd Dec. An extremely dull day with slight drizzle in afternoon: wind SE. Moderate & cold, temperature now very high, ca. 50.7 F. in the afternoon, continued over the British Isles, southwards. Sunday! In afternoon I sent with George, a bag of moss & some Xmas for a walk in the Drinahilly plantations.

24th Dec. Dull & calm & dry & comparatively mild - in fact a very nice winter day. Rainwater started to fall!

25th Dec. Dull & calm in forenoon with falling glass & rain on coast in evening. A slight drizzle of fine misty rain fell all afternoon, but did not penetrate through in the plantation where we were working, & a mass of Rhododendrons, on path, etc. later wind got up & at times there was fresh gusts with drizzle. George & family left at 3 P.M. to go on to Ballygarvey.

26th Dec. Another cloudy day with light NW-NE wind & slight drizzle of melted snow most of the day, but although air very damp not really cold owing to absence of wind. In afternoon we collected sticks in the plantation.

170. 27th Dec. 1962. After a hard frost & bright cold sunny day!
Both tubs, & two ^{though lamp lit!} square 'big green' ones' frozen & frost was worst except in
full sun. Spent forenoon finishing clearing bank of the burn in front garden
under the last trees. There was no frost on 28th Dec. I had a bonfire & burnt the four barrow loads taken
from sides of the burn in forenoon. On clearing a bunch of long grass from
the left bank of the burn beneath the last trees in forenoon I exposed a flower of
Lemon bedstraw which I regarded as virtually 'open' as it had been growing
up through the grass the removal of the latter damaged the flower & it will probably
not now open more; many other specimens were in full leaf.

28th Dec. After another hard frost, there was no thaw all day except a little in
full sun about midday: sunny in forenoon & wind very light & variable,
though cloud drift NE. In forenoon I had another bonfire & in afternoon
we had walk & collected sticks in plantation.

29th Dec. We had a very hard frost during the night & snow
fell a little after midnight to a depth of about an inch & except
in full sun about noon there was no thaw during the day: wind very
light & variable, but during part of the evening it became temporarily
stronger. Considerable sun in forenoon, but cloudy & cold also.

30th Dec. Only a slight frost last night & no further snow,
but during the day there were slight flurries of snow & melted snow
with a rising E-NE wind & gale promised later. There were also
signs of a thaw & some rain fell about 8.30 PM. England,
especially S & SW had severe blizzard moving up from the Bay of
Biscay, followed during the day by a quick thaw in SW, by
which time, 6 PM, the blizzard had reached Cheshire & Yorkshire.

31st Dec 1962. A beautiful cold NE gale all day after frost at night but dry here.
Though coal-burner reported 4 inches - heavy & cold. Snow in back garden
Beebridge & in S. W. W. Blizzards at sea - E of England. Snow in garden all gone. 171

1963.

1st January 1963. Similar to yesterday, with E-NE gale, & with very light
snow flurries in afternoon, when I collected sticks in plantation.
I don't think we had frost last night.

2nd Jan. Not so cold & E wind not so strong as on last two days, but
not entirely clearing & with light fine particles of fine hail or snow
blowing in the wind almost all day, after a cold night without frost.
In afternoon we collected sticks in the plantation in forenoon. I was
at the bank. About this date I noticed a few of the flowers open on the
flourishing Burnard bush by the burn in back garden.

3rd Jan. The E. fell calm during the night & wet snow fell before dawn,
so that we had to find our way on the burn, & at road we
slipping on ice & roofs dripped. No wind all day & a light drizzle
of melting snow fell almost continuously - sometimes rain, sometimes
sleet & sometimes cloud rain, so that by dusk the places were no more
deep in snow than at daybreak.

4th Jan. After a calm night during which a gentle thaw & some melting snow,
sleet or rain fell much snow gone this morning & no sign of frost. Thaw &
drizzle continued throughout the day, & had been cloudy, with full fog & 2-3-4
N-NE breeze.

5th Jan. Saturday. Drizzle & light N-NE breeze ^{all day} / stronger in evening,
after heavy rain during night. There continues to be much rain today, sleet & rain
in the plantation where I had walk in afternoon while Daisy shopped.
Nearly all sporting events in England cancelled!

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6th Jan. 1963. A dry rather windy & cold day, after a wet & windy night but no frost & wind to & fro, but we did get some patches of weak sun about midday. Sunday.
In afternoon George & I had a walk in the Drinabilly plantation where much thinning is going on by the Forestry Dept. The higher hills much more heavily snow-covered than any time this winter & even the top 200 feet or so of 'The Hillstone' perfectly white.

7th Jan. A cold windy, dry, day, after a dry windy night: wind E, with some sun about midday. George came for lunch & brought me new gardening gloves. In afternoon we had a walk in plantation.

8th Jan. Same as yesterday, with dry, cold, very strong, E. wind, throughout the night & all day, but considerable sunny periods around noon.

9th Jan. Same as yesterday, but colder wind & no sun at all.

10th Jan. Same, but wind more N. & very light: collected sticks & cones.

11th Jan. After very hard frost, a calm day, but cloud built over sea cut us off from sun & breeze as there: all blue sky inland. A snow shower in afternoon to depth of half an inch, from NE., but the town smoke has been mainly westerly all day, collected sticks in afternoon.

12th Jan. Further snow showers before bedtime last night left about an inch of snow over everything. This was followed by a very hard frost & we had no thaw - except in a very few places where sun warmed a S. facing wall. Sunlight was almost continuous from time of rising till sun went behind St. Donard about 1.30 P.M., but came out again for a few minutes when it passed between St. Donard & St. Bernard. A sign of Spring coming!

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13th Jan. 1963. Sunday. After another hard frost we had a cold but sunny day, dry, with W-NW wind. In evening, evening it became mild & wind standing & wind dropped to very light. In afternoon we had walk in the plantation.

14th Jan. There was no frost & very slight thaw during the night which was accelerated by a bright sunny day - the sun being out warm, but of course not behind St. Donard at about 1.45 P.M. There was little thawing in the shade, neither was there frost. In afternoon our walk took us via the Estate Office (to pay water rates) & the Harbour & home through the plantation to gather sticks. Wind dropped to calm in evening - NW-N. earlier - but no frost before bed time anyway.

15th } After a comparatively mild & sunny spell the very cold ENE

16th } wind & frost returned on 15th with heavy snow shower in the

17th } afternoon of that day, which lay to depth of about an inch for 36 hours & gradually dried off, but no sun & no thaw on 16th-17th. Had walks in plantation on all three afternoons & collected sticks, &c.

18th Jan. A dry, very cold, day with nearly gale force NE wind, increasing to gale in evening & then settling to moderate, after a "black frost" & no long snow shower after breakfast. Collected sticks in afternoon.

19th Jan. Another cold & dry day after black frost at night, but wind light, NE, & considerable sun in forenoon. I collected sticks in plantation. Did not go out in afternoon.

174 20th January 1963. Sunday. After a stormy night from NE a light blizzard came before dawn & lasted till midday, while the gale from E continued unabated till tea time. Temperature remained about freezing point for the whole period.

21st Jan. After a dry windy night, another very cold dry day, with no clearing NE wind, but some cold sun about midday. Went to see Mr. Livers in afternoon.

22nd Jan. Another dry day after another frosty night, but during the night the gale subsided & wind veered to SE & light, though still very cold & occasionally above freezing point all day, though we had continuous & even rain till the dipped behind St. George.

In afternoon we collected sticks in the plantation, where some were to be seen the ground is frozen.

23rd Jan. After a frosty night, a sunny day, but no thawing, except on footpaths in full sun. Wind light & variable, mainly SE. In afternoon the sky was filled with wild streaks of wind blown & very high clouds - not suggestive of the continuance of the anticyclonic weather we have had for so long, but it did not suggest any warmth. Collected sticks in afternoon.

24th Jan. Delivered income tax counterfoils up to date for requested by bank to the local branch. In afternoon we walked to top of Tipperary Lane & then across Tullybrannigan Burn & home through the plantation, after the heaviest frost at night so far, but good sun during forenoon.

We found the Tullybrannigan Burn difficult to cross owing to the stones & rocks covered with ice, in some places nearly a foot thick when water had splashed on to rocks & there froze. The funny thing was that there was more water in the burn than when we were last there & in some places it was running over ice!

25th Jan 1963. A slight thaw after slight frost during night & sign of a further thaw, but W. wind still cold & moderate. In afternoon I pushed a barrow of transplantations (from Scotland & local river) to Mr. Gaverick of Hillgarth, Glasgow, on loan. On way to Post Office in a front garden in Burnside Road (on sea-side of Shore Road) I saw, spotted two yellow crocuses in full flower.

Flora

Done

26th Jan

more

wood

Some

Poplar

27th Jan

first

midday

on 26th

today

with the

of the

week

on 6th Dec

28th Jan

at noon the

I sprayed the cordons, John Gower, red apple, Salix caprea & S. reticulata,

in back garden & in front garden the two Cydonias, Forsythias, & then

the moss on the lawn. In afternoon we collected sticks in the plantation.

The first Snowdrop now with its head bent over & ready to open.

Stelfox ~~Morton~~ MSS
NOTES

Block

175
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" 1st of them, several as well as through
some sticks & some
I there, with much
was I collected
lay with NW - W. breeze.
most in Island. From
practically wasted
80 minutes!!!
for the very slightest
a only cleared about
ten hours last year
did so yesterday &
the same facts
found the first flower
in flower for a
and it had long flower
with very high, between 20 &
9.

rain or drizzle, wind cold.

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Stelfox ~~Mortimer~~ MSS

NOTES

Block

174 20th January 1962 Sunday. After entering night from NE a light blizzard came before dawn & lasted till midday, while the gale from E continued unabated till bed time. Temperature remained about freezing point for the whole period.

21st Jan. After a dry windy night, another very cold day, dry, with a strong NE wind, but some cold sun about midday. Went to see Mr. Linn in afternoon.

22nd Jan. Another dry day after another frosty night, but during the night the gale subsided & wind veered to SE & light, though still very cold & occasionally above freezing point all day, though we had continuous & even rain till the dipped behind St. Andrew.

In afternoon we collected sticks in the plantation, where even under the trees the ground is frozen.

23rd Jan. After a frosty night, a sunny day, but no thawing except on footpaths in full sun: wind light & variable, mainly SE. In afternoon the sky was filled with wild streaks of wind-blown & very light clouds - not suggestive of the continuance of the anti-cyclonic weather we have had for so long, but it did not suggest any warmth. Collected sticks in afternoon.

24th Jan. Returned in our two counterfools up to 4th (as requested by bank) to the local branch. In afternoon we called to top of Tipperary Lane & then across Tullybrannigan Burn & home through the plantation, after the heaviest frost at night so far, but good sun during forenoon. We found the Tullybrannigan Burn difficult to cross owing to the stones & rocks covered with ice, in some places nearly a foot thick when water had splashed on to rocks & there froze. The funny thing was that there was more water in the burn when we were there last & in some places it was running over ice!

25th Jan 1962. A slight thaw after light frost during night & signs of a fall 175th, yet W. wind still cold & moderate. In afternoon I visited a house of transpiration (from Scotland & local river) to Mr. Garrioch of Milngavie, Glasgow, on loan. On way to Post Office in a front garden in Cherry Road (on sea-side of Shinn Road) I saw spotted two Yellow Crocuses in full flower! "Well open in the sun!" After posting parcel we went on through Donald Park to the waterfall & collected *Rhododendron* sticks & home.

26th Jan. The frost during night here & signs of a general thaw, with much snow gone off. The *hibiscus* & *Thunbergia* etc. In forenoon I collected wood in plantation in forenoon, which was cloudy with NW-W breeze. Some rain in afternoon & thaw continued. Listened to concert on Ireland-France Radio, noted in Dublin. France 24th. Ireland 31st. ^{11P} ^{actually} lasted 80 minutes, 11P.

27th Jan. Thaw continues all day & no wind, after the very slight frost in back garden last night. Foggy at dawn & only cleared about midday to give some sunshine. Sun cleared top of St. Andrew last year on 26th (i.e. as seen from our front garden) & probably did so yesterday & today, but we were unable to see if it did. The two *Thunbergia* with faded flowers now fading! The smaller opened its first flower of this winter on 19th Oct 1962 & so has been in flower for a week over three months. The larger plant opened its first flower on 6th Nov. 1962 & has flowered ever since. ^{Barometer in night, between 20.6 & 20.9.}

28th. Unusually cloudy, very foggy, damp, day, but no rain as yet. Wind cold with more than a variable draught, after a calm & misty night. In forenoon I sprayed the cordons, John Innes, crab apple, *Salix caprea* & *S. viminalis* etc. in back garden & in front garden the two *Lydonia*, Forsythia, & then the moss on the lawn. In afternoon we collected sticks in the plantation. The first *Snowdrop* now with its head bent over & ready to open.

176 29th Jan. 1964. A dull calm day after a smother night, without frost. After a dry forenoon a slight drizzle commenced at 2 P.M. & continued till bed time & without any definite wind. In afternoon I collected sticks in the plantation. In the forenoon I dug out the rose pond in the wiggly, removing about $\frac{2}{3}$ of the clump of Yellow Iris & most of the *Ministeria longicaulis* which had nearly filled the pond & removed all the lesser plants I had planted there. I also cleared the sludge from my "terracotta" in the rose basin.

30th Jan. Snow in drizzle continued most of the night & hills & white down to 300 ft. Here in garden no snow lay, but it was a very cold forenoon with slight drizzle in forenoon & cold wind from NE along shore. The afternoon was drier & milder as breeze fell light, when I collected sticks in the plantation.

31st Jan. After a cloudy night & early morning, we had a dry mainly sunny day, with cold wind - mainly NE, but light & variable at times & in late afternoon. In forenoon I cleared more sludge out of the pond & rose basin in the wiggly. In afternoon Daisy & I walked up the Green Hill & round the S. side of Dunsall, where small patches of snow still lay on the road at 700-750 ft., & home past the "Shepherd's Cottage," 2-30 till 4.15 P.M. Our longest walk since 2nd Nov. After breakfast a ♀ Blackcap came to feed with other birds outside kitchen door, where Daisy had thrown out mist food. Recently there has been a ♂ Tufted Duck on the Shinn's River above Shinn's Road & some Mallard on the boating lake. Yesterday forenoon I noted 2 ♂ Ducks & 2 Ducks of the former

177 & 3 Mallard drakes & one Duck: the latter had taken up her place on a clump of laurelwood projecting above water level of the lake & was being a sheep, while the 3 drakes kept near by, round her & out of her, each other now & then. Dead Ridings are numerous in the plantation & patches of their feathers seen in various places, including our back garden, but I saw one full up & worn in front garden today, the first sign of the season having eaten since the first commenced about a month ago or more. Still mowing & pruning in S. of England. There are now 2 Winter Acornets in flower & 1 Snowdrop, while there are 2 flowers on the Lesser Celandine at base of the big Ash tree in front garden.

1st February, 1963. A cold dry day, with very little sun here & wind mainly NW but cloud drift more NE; heavy snow in parts of E & SE England last night & forecast for Eire & N. Wales tonight as small depression from North Sea northward over southern England. Barometer here falling all day. While mowing "bushes" in Shinn's Rd. in forenoon I watched at least 5 or 6 & 3 or 4 Tufted Ducks briefly diving in the boating lake (only 2 ft. deep!) & with them was one larger bird with white around to me at the distance & a pair light to have a ♂ all grey back & I thought it was a ♂ Scamp. The 3 Mallard drakes & 1 duck were still there, all 3 drakes trying to ingratiate themselves with the little duck, who once again was having a little nap or pretence to do so! In afternoon we had walk in the plantation & collected sticks.

2nd Feb. After a heavy snow-shower between midnight & 2 A.M. a very sharp frost, with ice on trees & both a sparrow in greenhouse beside my lamp: sun & cloud & one light snow shower about noon, but no thaw except in full sun all day!

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4th Feb 1963 Sunday. After a hard frost & some snow, a cold forenoon with some snow, but afternoon quite nice with sun & a cold but no snow & not so cold. Wind light N-NE.
4th Feb. Frost & snow shown at night once again, but a bright sunny day, with cold E wind, becoming moderate in late afternoon. Afternoon like yesterday & today we had snow in the plantation.

5th Feb. SE, ± gale all night & all day & still going strong at 8 PM. Snow, sleet, some rain fell from long before dawn & all day & still falling. After several short failures of electricity during afternoon & early evening, but only a few minutes each, it failed at 7 PM. & has not yet been restored. The evening news on B.B.C. was that in N Ireland there had been widespread dislocation of all forms of transport & many failures of electricity due to icing of insulators. At 8.15 PM the supply has just returned, but is flickering. Shortly afterwards the supply failed for good & we spent the rest of the evening & went to bed by candle-light.

6th Feb. We awoke to find the electricity supply still cut off & about 3" of snow on everything & still blowing hard from SE. Telephone also gone out about 10 AM. SE gale, in most times with intermittent snow & sleet all day, but temp. above freezing. At 7 PM or thereabouts the telephone & electric power still not off. The newspapers & 3 or 4 news arrived in the town today for Belfast - a first - nothing doing! Mounted some Icelandic plants collected last July by Hans Fisher & C. Millan.

7th Feb 1463. After a milder night & heavy rain, 179 during which the wind died down, most of the snow at our house gone, but from 500 ft. upwards it reached to the more deeply. Still no electric current & no telephone, until 3.14 PM. When both came on, our neighbours' Anderson failed to get beyond Tel. Penryn this morning & reported road blocked by snow between that & Coleridge. Also road about Ballynabine & at Ballynabine blocked & nothing has got through from Belfast. We have had no mail & no newspapers since the 4th. In afternoon we walked to the Douglas golf & house through the plantation & collected some plants. About noon I saw a Snow Thrush full & warm out of front lawn, which I have not seen happen for a long time.

8th Feb. A more calm day, after a calm but very misty night & except for the sea mist & hill fog, we could have had a nice sunny day, but sun frequently hidden by the mist, which increased in afternoon & a drizzle commenced at 4 PM. & continued till dark. Road in many parts of Western Hill blocked & nothing has got through yet from Belfast, owing to drifts near Ballynabine & Ballynabine. We got mail this morning via Newry, & a post in afternoon - the first for 3 days!

9th Feb. After a calm day, misty night, & a similar day with light easterly breeze in forenoon rising to fresh & rain strong in late afternoon & evening. In forenoon I collected plants in the plantation, where snow now nearly gone below 300 ft. Cold!

10th Feb. Sunday. Another, ± cold, cloudy day, with easterly wind, after a cold, dry night. More snow in England & Wales, but here only a few very slight drifts of melting snow in afternoon. We had walk in afternoon in the plantation & found fairly deep snow on the upper road from the shepherds to fountain cottage, but below this level snow now only in small patches.

180 11th Feb. 1962. After a cold day, a calm night, a similar cold day day to yesterday, i.e. cold, a slight E. NE & light & entirely cloudy.

Mr Harding's 3 year old seedling, Perry in pot in greenhouse with 1/2 red front showing (after a good watering 3 days ago). In forenoon I turned over the compost heap at back of back garden. In afternoon we collected *Rhododendron* sticks. Today I received back a small box of seeds (*Platylabus* spp.) from J. F. Perkins, which I had sent him last November! Acknowledged same this evening.

12th Feb. Another cold & dry day, but some nice sun about midday. In forenoon I cleared sides of the tubs in a vase, & in afternoon got this all done, as well as some other work.

13th Feb. A very cold day, after a slight frost, wind east, very cold & strong. In forenoon transplanted to edge of the large main plot next Anderson's garage, the so-called "round" *Camassia* given me last winter by Mr. Caldwell and the patch of *Scilla maritima* from beside the Malonia, as the latter was being swamped by *Prunella*. Gale, rain & thaws promised.

14th Feb. The forecast gale & rain came during the night, & has continued all forenoon & temperature a little higher, but glass still falling, at 12 noon.

Rain & wind gradually died down in late afternoon & early evening.

At 9 P.M. quite calm & rain stopped. Wrote Nixon about *Helorus*!

15th Feb. Same as yesterday, but wind & rain not quite so bad, after a \pm dry night. The promised thaws in England "turned back" by the

NE wind from Continent this afternoon, as we expected! & heavy snow in parts of Scotland & hills & districts in England. In afternoon I had short walk in plantation & collected sticks. Wind up more at 9 P.M.

16th Feb. 1962. A day very cold day, with strong & bitter cold NE wind, dying down a little in late evening. Fresh snow on ground, following yesterday's snow, but none below that level. A few sprinkles of fine pinky snow on 1st day, & a snow-drift, with heavy overgrowth of *Shin* & *Willow* & *Salix*, & it looks as if some day, possibly, when we could see it. At break of forenoon & in afternoon we collected sticks, a *Thalictrum* in less open than during things on NE slope of *Strimbley*. In *Shin* & *Willow* & *Salix* & *Rhododendron*, which is a flower before now, has open some flowers, but only about half-size I should think I believe it is *R. anthracinum* but?

17th Feb. Sunday. A fine, calm, sunny day, after a frosty night, with very gentle NE breeze. Slight falls of fine particles of snow occurred between 7 & 10 A.M., but thereafter we had clear skies & much sun. On the day the sun was high enough to shine on the sports fields in Toward Park till 3.45 P.M. In afternoon we walked up the Green Hill & round S. side of *Strimbley*, from E to W, & home via the shepherd's cottage, by the Tullybrannigan Burn & back across.

I took my camera with me but the light being very & most being over *Shin* & *Willow* the only photos. (3) I took were views of *Shin* brook (partly snow-covered) behind *Barth* wall, giving 1/2 of a second exposure, but I don't if these will be very good as taken between 2.20 & 2.30 P.M. with foreground in shadow. Many branches of conifers were seen broken down by recent snow-storm & several small *Scots* Fir trunks broken in or eight feet from the ground. Birches also badly broken in some places.

We had tea by daylight for first time this year & did not put light on till after tea & back view.

18th Feb 1963. After a hard frost with the sun in
agony in greenhouse, a very nice, sunny day, but
frost coming down to brought approach from SW: clouds by
6 P.M. Very light E breeze all day, but wind rose in evening.

In afternoon we walked to the Burnside and Gate of Tollymore Park
& then along the shore path outside the wall, across the moor to the
Tollymore Burn. From path the steepest water. Works found exit
& home through Burnside hill plantation. 3.30 till 4.30 P.M.

19th Feb. Similar to yesterday, after another frosty night,
but not so much sun, no showers of snow, & a slight
cold & stronger E breeze. In afternoon we walked through
the woods to clearing above the Burnside & home by the upper
moor.

20th Feb. After a very cold night, with brisk N wind & black frost
we had another very nice sunny day, but with cold NW-N breeze,
which died down towards sunset. In afternoon we returned over
steps of yesterday, on starting that excursion Daisy had lost a button
off her coat & had some time to find replacement. After coming
2 miles of our road we found the button beside a fallen fir branch
where Daisy had stopped to pick some of it & the coat must
have caught on it & the button torn off.

21st Feb. Same as yesterday after a slight white frost & almost entirely
sunny & almost warm till 3.30 P.M. though some slight shower (1/2 inch)
passed us by, and very light & NW-N breeze less cold than of late.

Had walk in afternoon in Burnside hill, etc. Pet. sun as usual.

22nd Feb. Cloudy all morning, with light cold E breeze, after a very hard frost. In afternoon
we walked to Burnside & back across the moor, as on 18th. A few *Saxifraga* *puberula* L. (2)
taken on path from window of cottage, among grass & moss, all in flower & in fruit at first.

23rd Feb. 1963. Warm & bright E. & S. wind, but in evening with some rain.
In forenoon I collected with a slight - plantation.
In afternoon I started to dig, intended at Burnside & Tollymore, a little more
a few more which I collected near, especially at Tollymore. In evening I
finished the sorting of my *Trigonotis* etc. etc. with help of Scholastic.
Key in Hym. M. Europe - a preliminary & very rough sorting. Life in

24th Feb. Sunday. A dull, cold day, with a lot of rain & large snow
and a S-SE wind, with dark morning, passed 10.00 A.M. after a
slight frost at night. Dull & windy in evening. In afternoon we
walked up path on E side of the Burnside & home via the farmer's
cottage.

25th Feb. A mainly dull day, with very cold & strong S-SE wind, after a
windy night with frost, as usual. In afternoon I collected sticks, while Daisy shopped.
There is a big heath fire in forenoon somewhere along the Tollymore Burn
which we will investigate tomorrow.

26th Feb. We learnt today that yesterday's heath fire between Tollymore Burn
& Tollymore Park was "official" by the forestry Dept. That
Mr. "Benny" (?) firing for safety of his caravan camp placed the
fire brigade. The afternoon we found the fire was confined by the walls
parallel to the Burn & that it might have been at some 100 yds S. of Tollymore
Road. A sunny day, but with very cold strong S-SE wind.

27th Feb. Another bright & sunny day, but with much ^{unlike} hill-haze
& very light SE wind, after a frostless night for the first time this week.
In afternoon we had walk & path as usual in the plantation.

28th Feb. Another dry sunny day after a frostless night, which would have been
very pleasant but for the strong E-SE wind, which increased to gale in evening.
In afternoon we walked round Burnside hill, where almost as much snow as a week ago & home
by the shepherd's cottage. Yellow crocuses in front garden. *Trigonotis* open in sun today.

184 1st March 1962. Another all sunny day, with very cold E-SE wind, after a very slight white frost.
Six yellow Crocuses in front garden under the Ash tree open in sun at 2.30 P.M. Several of them *Dutch* Scilla.
S. of the greenhouse with flowers above ground, but only one ready to open. *Daphne blagayana* now almost in full flower. Took three photos this morning! Snowdrops, *Erica carnea* & *Daphne blagayana*. In forenoon I cut my side of Anderson's hedge at the corner of back, which I had feared to not last winter & cut was sufficient to get of weeds round house & replace "the camp" along path due to frost. Evening clear, very dry & mild, frosty, some in sun.

2nd of March. Same as yesterday, but less smoke haze & therefore sun warmer, but some cold SE wind & becoming cloudy in late afternoon. Miss Kentland spent her hour with us in morning & in afternoon we collected chips in the plantation.

3rd March. Considerable rain fell during the night & there was no frost in water! After which the garden looked more cheerful than of late & we had 18 yellow Crocuses in flower; the blue Scilla flowers open, but damaged by sparrows as well as the flowers of the pink primrose X polyanthus; *Linum catharticum* (Bulbocodium) with many flowers open & green shoots of *Arum maculatum* 2 1/2 inches high, & buds of *Chionodoxa* & *Sax. oppositifolia* showing colour, as well as buds on *Sax. geranioides*; none of the last ^{five} seen yesterday. Nearly all sunny but keen E-SE wind still here! In afternoon we had our usual Sunday walk in the plantation. Male Hazel catkins now shedding pollen in various places: did not look for ♀ flowers.

4th March 1962. After rain at night & until 10 AM, a sunnier morning but quite mild and foggy until 11 AM. In afternoon Miss Kentland & I spent a couple of hours tidying rock garden where the more rampant plants were threatening lower & more things & then filling up the space with good soil. Clouds gathered in late afternoon, wind dropped but rose late & rain fell in evening, night, but temperature to rise before day for another mild day.

5th March. After a stormy night with rain squalls we had an equally stormy day with squalls of rain (about 11 AM) on rain or drizzle off & on all day! Wind S. rising, SW later on glass rose & increasing to gale with some gusts: very mild for the most part & met. office announced that for the first time since 1st January all parts of British Isles would be free of frost. In afternoon I had an hour's work in the plantations, collected chips.

6th March. Very mild, sunny, with wind but sun in forenoon, after a very wet night. Wind strong during early part of the night, but very light during day from SW, rising to strong & backing in late evening, with some rain. Spent forenoon cutting top branches off the *Salix caprea* at NW corner of greenhouse: the tree a young plant brought from Dorset dilly in 1956: kept the stump at about 5 ft. in height. We had walk in the plantations in early afternoon & collected some sticks, etc.

Doing planted shallots in forenoon!

7th March. After more rain & gale during night, mainly sunny & a dry day, but S. wind fresher & cooler than yesterday; becoming cloudy in afternoon, with strong southerly wind & rain before bedtime. It is some of the seeds for first time 1962 in forenoon, in early afternoon I collected sticks in plantations & took four photos of the *Dorset Falls* in not too good light, at 1/2 sec. exposure.

Later gave both lawns a sprinkling of liquid ammonium sulphate to see if this will help the grass.

186 8th March, 1963. After a windy night & some rain, a rather cloudy & windy (S) day, but no rain. In the afternoon & evening of, there after a sharp interval another drop in the glass heralded the coming of another trough, with heavy rain & southerly gale all evening. In afternoon we had walk - Edward & John & I to the plantation. At 6.30 P.M. Prof. Fergus (of Univ. Coll. Cork) & his wife called for a few minutes on their way to Ruth's home & Malts & while she returns home Fergus goes on to California for 3 months.

9th March. After another stormy & wet night, the early morning was dry & calm, but no sun after 8 AM when rain & hill fog covered the sun & hills with rising S-SE wind. A cold drizzle commenced about 10.30 AM & lasted till after 12 noon: no rain fell from then till 3 PM, but heavy rain fell most of the afternoon with rapidly falling glass & absolute calm, until after 5 PM. When centre of depression had passed by & glass stopped falling: wind rose to gale later & gusts from S-SW but it remained dry till bedtime. A dry spell between 2 & 3 PM we had a walk in the plantations. Later I listened to comment on the Rugby game in Cardiff where Ireland beat Wales by 14 pts to 6 - the first win at Cardiff since 1932!

10th March Sunday. A mainly rainy day after wind & rain at night, but wind only light or moderate, westerly; there were dry intervals with sunshine & during one of these we had a walk to the sheepfold cottage & home through the Dromedary Plantation, in the afternoon, where we found all the hares in spots & very pretty. Except in shelter the wind made it chilly & we saw obvious *Carduelis* over the sea & "hail & thunder" had been forecast. In back garden a *Rhododendron* "Sue's a-bear" in bud at SW corner of garden but it first flower opening - a very early white with pink calyx. Very pretty.

11th March 1963. After a very still frost so had a lovely sunny day with light NE-N. cool breeze & occasional clouds, but no change in spite of the weather report at 8 AM forecasting rain & severe gale for southern half of Britain & N. Ireland. There were however a more accurate forecast & our barograph was suggested such weather & rain & little just as the storm should have reached us. I had barometer & got all the accumulated rainfall record & also took in barometer & also of wind & rain of the two hours & pond. Daisy sawed some lettuce in one of the frames. *Rhododendron* "Sue's a-bear" well in flower, & also both H. blue & white *Anemone hepatica* & a few flowers in *Lithospermum* "Heavenly Blue" *Mediterranean* Heath also almost in flower & the first Purple Crocus open. The large Snowdrop ready to open & likewise *Sax. off.* from various localities, but no flowers actually open.

12th March 1963. A very nice day with considerable sun after 12 noon, but also cloudy & wind light, westerly, after a frosty night. About 12.30 noon while in back garden I heard & then spotted a large *G. Borealis* *canon* on *Erica carnea* next the *Malonic*. Half an hour previously Mr. Gibson (Hort. Inspector) had called to get me to confirm a record as *Phragmites communis* from Ballyward Lough & when I asked him if he had seen a *Bumble Bee* he replied "Only yesterday!" but added "It was in a cold greenhouse!" I did not ask where the greenhouse was! Two days ago I twice thought I heard a *Bombus* when in the back garden, but could not confirm this by seeing it! Mr. Gibson examined one of the recently dead *Agave* in back garden at my request in order to see if it had been killed by *Armillaria* - the Honey Fungus - & was able to say "No!", I am glad.

In forenoon I did several bits of clearing in rock garden & in afternoon I cleared a space in plot N. side of greenhouse to make room for Scottish plants I have in pots in greenhouse & transferred what had been there (mainly *Carex rigida*, *C. pilulifera*, &c.) to N. side of the new lawn opposite Mrs. McCallum's & Mr. Dickson's boundary fence.

188. 13th March 1963. After a very clear night, with very light frost, a rain with blue in with rising SE wind & rain commenced about 11.30 AM. & soon became heavy & lasted all day, cold in forenoon but much warmer by 6 P.M. & wind veering SW & clearing. No work in garden possible, so in afternoon I went to see Mr. Livers & came home at 5.30 P.M. When I passed the bridge (at 2.45) over the Tullybrannigan Burn it was as full as I have ever seen it & very pretty falls everywhere, but when I returned (at 5.15) it was a rushing torrent, full from bank to bank, & no falls visible - just a level flood. No doubt due to the heavy rain melting the snow, which still lies deep in drifts on Slenshie.

14th March. Another poor day. After gale & rain during night, gale & rain from 11 A.M. onwards till bed time, with occasional dry spells in aft. & evening. Mild, wind mainly south. Could do nothing in garden.

Sax. oppositifolia from Bannockburn apt. (opposite with, some window) with first flowers open & most of the others only waiting for a sunny day.

15th March. A lovely warm & sunny day after a wet night; wind SW in forenoon & light, but turned SE in afternoon & cooler, increasing in evening as another depression approaches from SW.

Sax. oppositifolia from Scotland, Snowdon & Knockanaght with many flowers open (the pink form from Glencade only in bud) as well as the yellow *Sax.* given me this day last year by Mr. Caldwell (No 1). All the flowers on *Rhodo. 'Barrie's'* - Brown

so lovely on 12th are now brown & falling, the frost on night of 12th-13th. The *Bombus lucorum* & *terrestris* seen in flower of *Hebe* & *Primula* - *cliviana* taken at flower of *Erica carnea*.

16th March. After very heavy rain during night everything in flood this morning & heavy squally showers till after noon, but sunny intervals

16/3/63 cont

The afternoon was mainly dry. There was a bit of frost, but later as wind went from S to SW, frost was strong & gusty. Could do nothing in garden.

In afternoon, when sunny, a green warbler (I think *V. palmarum*) followed me into the greenhouse & after flying round the plants &

this is the first I have seen this year. *Sax. oppositifolia* in front border in flower! 17th March. After a dry stormy night with little wind & no frost, wind backed to SE, sea & hills fog arrived & rain commenced about 11 A.M. & fell through the day & still rising at bed time; wind SE or E & after stormy, but now & then dropping to light breeze calm. Sunday.

18th March. A really lovely & sunny day after another wet night! Clouds cleared off about 8 A.M. & only a few drizzle drops fell on two or three occasions when showers passed over the hills; wind west & never strong; later when clear & entirely & intense brilliant at 8 P.M. when R.C. Faris left to catch 8.30 bus to Belfast. Faris & family arrived at 2.30 P.M. & after going round the garden from 5 the two girls went on to Belfast & Charlie remained to discuss *Sax. oppositifolia* & the proposed "Irish list" of same.

19th March. After a very slight white frost, another mainly sunny & dry day in spite of a gloomy forecast which said 'rain would reach N. Ireland by noon'. About the time it did get dull & looked like rain & a few drizzle fell about 12.45 noon, but it soon cleared & we had a very nice sunny afternoon. Wind S.E. & very cold up till noon, then softer & warmer & rain came out again till the E wind returned, but not too cold. Some drizzle in evening. Spent day clearing autumn & winter seedlings of *Sax. oppositifolia*, *Sax. oppositifolia*, & off paths & plants put in ridge by Daisy in the autumn. Saw the ♀ *Bombus lucorum* again. *Rhodo. praecox* in front border in flower.

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20th March 1963. Another very nice day & wind backed from NE to N & increased light though cold. A good deal of light cloud but some considerable rain. Planted slips of *Juncus* of name to Miss Bullard of Orkney, as well as seedlings & rooted cuttings of *Hebe*, slips of the dwarf *Sedum spectabile*, & seedlings of *Veronica* *spicata*. *Sax. jenkinsii* now in nice flower. *Rhod. alpinum*, *Rhod. praecox*, & M. Baldwin's white *Saxifrage*; the yellow *Saxifrage* (see note under 15/3/63) is now thick *Sax. saxatilis* & the white very like a white var. of same or *Sax. apiculata* — all three have very similar foliage.

This morning I was delighted to find one of my plants of *Shortia* (the one below the *Malva* & facing the wee burn!) had numerous buds about ready to open. Planted some seedlings of *Cypripedium* (given me by Charles Farn in Norway) in front border of front garden. In afternoon I cleared up sides of upper path in back garden & put the moss, etc., into a deep hole to get it out of the way.

21st March = First day of Spring according to the Met. Office & so snow forecast for East Angles & Kent in 6 O'clock P.M. report. It also announced that the trough which 8 A.M. report told us would bring rain to N. Ireland by noon had unexpectedly been turned back when it had reached Wales, by an anticyclone spreading from Greenland, & was now heading for France. Anyway we had another nice day with much sun & no wind & only 3 drops of rain about 2 P.M. Spent day in garden & prepared place at NW of greenhouse for Scottish plants overwintered in greenhouse.

21/3/63 cont. Took last photo (in last year's film) of *Sax. app.* & *Sax. apiculata* & will print tomorrow. 191

22nd March 1963. After a new rain of frost we had a cold & dull day till 4 P.M. when all cloud soon vanished & we had a nice sunny afternoon till sunset, with slight frost promised for tonight. Spent day clearing up path & sides of back opposite-clutter lane — much damage done recently by the blackbirds digging at roots of shrubs under stones, etc. Covered the back of *Rhod. alpinum* with sticks & newspaper against frost & the *Shortia* with box.

23rd March. A most perfect March day & entirely sunny, after quite a hard & very white frost, & with light cold E. breeze. Ground frozen at 9 A.M. & very thin ice on tubs at greenhouse. In afternoon, there was so hot I had to take off my coat when I was working along the wee burn under the big holly in back garden. Spent most of day burning rubbish & particularly fallen holly leaves, of which I took about 4 barrow-fuls from the burn & it barked between the big holly & garage. The newspaper I put over the *Rhod.* last night was removed this morning & seems to have helped to warm the flowers to some extent. Covered the *Shortia* again tonight though frost not expected. The ♀ *Sedum cuneata* in Anderson's & the ♂ in wazzy next same both with catkins. Flowers open today.

24th March. After a + clear frostless night, wind arose in early hours & by 8 A.M. was blowing strongly from SW with a cloudy sky & hill fog. About 11 A.M. a slight drizzle started but no real rain fell till 2 P.M. when I went for an hour walk in the plantation. Sunday & late aft. Rev. Greer (friend of the late J. M. K. Macdonald) called to see garden. Wind continued strong all day & glass to fall.

19th March 1963. After rain at night a very fine sunny day with light S.W. wind. Saw at times near the top of the wiggly where I was clipping the edges to widen the grass path.

26th March. Another very fine sunny day & light S.W. breeze from the west. Saw again but when out. Saw the Bee now common, but all the other bees are so common. One of the bees on flowers of *Malva* at 6.30 P.M. before we took three photos with the Mr. Foster film - Kodachrome II - of Bee off. & in flight. Saw off. *Bombus* sp. & *Bombus* sp. to see if the blue is better. *Bombus* sp. for 1st time seen so far & last 7/6 of a pound, with stops at 14-15, all in sunlight. The *Bombus* sp. & even the *Bombus* sp. saw off. & little part then back to the Sunday gate & rain.

During the rest of the day I continued widening the paths in the wiggly & in afternoon I burnt six barrow loads of the cut grass-edges of the path, & put the hand over over all the grass there.

27th March. Heavy rain during night, which fell as snow on Shire Lough, &, down to below 2,000 ft. with a very sharp snow-line. This was melted & left the influence of intermittent but rain. A few light but strong & one peak of thunder during forenoon, when I finished the paths in wiggly. But first grass for first time since 2nd Dec.

28th March 1963. Another poor, cold day, with rain at times & strong cold S.W. wind. Began in forenoon to clear up the island in the way before opposite the back garden or what I have been used to call the first loop in the way near the house & the first loop made in the stream. In afternoon I had a walk in the plantation.

29th March. A cold & dry day, after rain at night & frost on St. David above 2,000 ft. wind northerly, light, but very cold: much hill fog in forenoon, but afternoon clear & with occasional sun. In forenoon did various jobs in garden: attended path N.E. of greenhouse & moved one of the *Brassica* plants from the road & put it against back end of garage. In afternoon we had a walk in the plantation & later I did some more clearing of the island in the way & planted two *Bombus* & a small tray of *Juniper* from roots. 5 of St. David's brought me last night by Mr. Philip Wood.

30th March. Another very cold, poor, day, with N breeze & drizzling rain like salted snow till about 2 P.M. the day & very cold & so on all day. In afternoon when in greenhouse I heard a *Bombus* Bee, the first heard or seen for several days.

31st March. Sunday! Except for a very cold & wind, not too bad a day, mainly dry, but little sun & light rain in late afternoon.

1st April. Much milder & after with some sun & light S.W. wind, but a very heavy shower between 12.45 noon & 2.30 P.M. then fine for some time, then another shower & then a fine & calm evening.

One of the plants of *Shasta* 1, the bare path in back garden now with seven flowers & a very pretty sight; first flower on *Goldenella* open & one on *Camellia salicifolia* next Anderson's hedge, & one on the *Fernythis* near same. One of Mr. Fitzgerald's seeds of *Paeonia* seen 2 years ago in pot in greenhouse now germinated.

1963 3rd April '63 After a dry night & a very windy morning, but heavy showers at intervals from 2.30 PM onwards & a light drizzle in the evening. Wind at times chilly. Difficult to find the various catches at various times. First flower & the buds in *Viola odorata* by window. Flower on Wood Sage on bank of burn. Several *Rhodod. blanda* - flower including "Elizabeth". Spent forenoon finishing clearing of the island at first loop & in afternoon had the fire, before first shower.

3rd April Another windy sunny day without a real shower here, but chilly NW wind. In forenoon I finished the clearing up of the first loop of the burn & in afternoon I dug out the grass &c of its bank from the *Ranunc. acris* to the end to the stump of Wood Sage & left the stones to dry & be shaken later. *Rhodod. Elizabeth* with several flowers open.

4th April After a dry night but no frost & a dry cold day with N-NE light cold breeze, but considerably sunnier, becoming more cloudy & which looked like a heavy snow shower passed to west of us between 6 & 7 PM. Spent forenoon working, soil out of the grass sods dug yesterday by the burn path & in afternoon got a lot, as well as other refuse, burnt.

5th April 1963. After a similar night & forenoon as yesterday, a drizzle commenced about 2 PM & continued at intervals till 4 PM. In forenoon I did various jobs in garden & by the burn, when the wind was strong & the cold & several more. The shower passed over the hill. *Rhodod. Elizabeth* had 2" of snow. In afternoon we had the burn water in the plantation. The bonfire of yesterday continued to smoulder all through the night & all day, in spite of the drizzle.

6th April Though after heavy rain (4.30) & clearing for the 4.5 hours we had a very fine day with NE & heavy rain falling light & bright. But heavy rain-fall was broken & more frequent. Although rain soon ceased after 8 PM it continued to drizzle till about 11 PM and then in the afternoon, when a few more showers could be seen in garden. In afternoon we had water in the plantation. The *Ranunc. acris* were for 100 and 200.

7th April Sunday. In spite of the now usual very cold NE breeze, this was an extremely fine day, with rain (in shelter) from noon till sunset. Leaving home at 2 PM Daisy & I walked to the downland gate & into Tollymore Park, then round the S side of the E. burn & down N side of the W. burn, then back up the S side & back by the old bank & home via S side of W. burn & N side (Happier's Pond) of the E. burn, reaching home at 6.15 PM. The broad logs scattered by *Sanicula oleracea* & *Epilobium* while there did some hot broken up & thrown aside. Found many dry paths to the quarry & took one in at Blackland & 3 together. While having one of the first specimens of *Simulium* seen to inspect us.

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8th April 1963. A poor, dull, cold day, with some little E. wind, but no rain. Most of the day continued to clear up the path by the main house & back garden. Light rain after sunset.

9th April. Similar, but short periods of rain in early forenoon, & all but clear in afternoon when I put handles on the lights of George's lamp frame in back garden & continued work with lamp pole. Wind E. but very light.

10th April. After a dry night, without wind; a more or less calm & dull day, but breeze mainly W. & some sun in afternoon; here not so cold. Barometer fell all night & continued to fall all day, but we had no rain at all. Transplanted plants brought from Scotland last summer & N. & W. of the greenhouse. Saw a fresh *Comber pratorum* ♀ or flower of Lungwort about 2.30 P.M. & heard several other *Comber* during the day.

11th April. After a dry & calm night another mainly dry & calm day, till afternoon when a series of hail showers from NW crossed the district & left fresh snow on hill & summit of Shinn Ford down to 2000 ft level. As a warning of frost was issued we made an effort to protect the *Camellia* next Anderson's fence in back garden, which is almost in full flower, by erecting a tent over it on three poles. The first flower on the one in front of hall door also open today.

12th April - Good Friday. After quite a hard frost & some snow during night, but in on arrival at Greenhouse we had an all sunny day but chilly, with W. wind until 5 P.M. when a tempest of hail & rain left garden. Hail & rain continued until 8 P.M. when a heavy shower. Wind continued strong & cold, but we could not see the sun, but the sun was seen.

13th April 1963. After a further night, but cold & windy, with a few showers. But no rain in afternoon; wind SW & usually in showers, with some sun between the showers. George & family arrived at 12 noon & left for home at 5 P.M.

14th April. Easter Sunday. Heavy & continuous rain, from light drizzle to heavy rain, all day from 10 A.M. till night & shower later. I had a lawn with a plantation in afternoon. Still & no wind until evening, with first "growing" day of the year & we could see the plants in garden expanding hourly.

15th April. Skies cleared about sunrise & we had blue sky & not a cloud till sunset. A rain really hot & until an overcast & wind got up in afternoon there was only a very light SW breeze. Great sign of growth in garden. *Brachycomma* & the *Holcus* my station. *Brachy* (not *hirsuta*) in flower; also a few *Sax. rosea* (1955) & I found several flower buds just showing on my *Agave* (*laetevirens*) *prostrata*, which is a plant brought from the top of the Yellow Corrie, Glen Lyon, high hills, in July 1954 & which in summer of 1955 produced a single flower, but has not since flowered. Last autumn I gave it a dose of sequestrene & recently some dried blood, though it has always seemed healthy in its original 12" pot sunk to the brim in the ground. At 11 A.M. while I was examining the plant a large or black & yellow Schannor Fly came by & lit on a plant allowing certain identification as *Banchus crassifemur*, a species I formerly took in Co. Wicklow & Dublin, but had not met with for many years. I had no net & no chance to catch it with my hand.

16th April. After a fine forenoon it soon became cloudy & rain commenced about 3.30 & fell steadily with increasing S. wind till bedtime. In forenoon Daisy heard a Willow Warbler sing. The Hail soon spoke the evening, with us.

20th April. After a dry night, rain came on at 8 AM. & we had a gale from SE with heavy rain or drizzle almost all day, a few dry intervals in aft. Wind veered S in evening & slackened somewhat, but again not turned up at 10 PM.

Swings }
pens } 1. — 14 of all doors
2. — 11 Home Guard & 3 Western Chieftain
3. — 14 Western Chieftain
4. — 18 Western Chieftain
5. } 2 new Gentel Record
6. }

The last 4 at W. end of Row 5
were long-spined, cat-like throats!

6A

Whitcomb

P.T.O. \rightarrow

23.4.1963, cont.

During the day I saw the following Hymenoptera in back garden of 21 Tullymore Road:—

On flower of *Rhododendron subiginosum*: scores of Honey Bees & 2 ♀ *Vespa rufa*. On flower of Lungwort: 2 *Bombus pratorum* ♂♂

On flower of *Erice caudata*: a minute & fresh ♀ of *Bombus jonellus*. Also one ♀ *B. agrorum* & several *B. lucorum*; as well as a ♂ *Andrena albicans* & one Small Tortoiseshell Butterfly, this being the first butterfly seen in garden this year!

24th April. After much rain early in the night, we had a calm, mild (almost muggy) day, till about 3 P.M. the drought changed from W. to E. which brought on a slight drizzle, but the wind again becoming W. the drizzle stopped & we had a dry evening: we had virtually no sun all day.

In forenoon I completed the plot of potatoes started yesterday (see chart on p. 199) in spite of the very wet soil. In afternoon we walked up to the new bridge over the Glen River via the plantation & home by the road.

After tea I planted out in the NW plot near the River 5 cuttings of *Erica cinerea* from Slieve Donard which were taken in 1961 & 2 of *Dehancea (agrostis or praeagrostis)* which have been in a 12" pot for about 2 years & now well rooted.

25th April. A very nice dry & dull day, but for some hours we had the usual chilly or shivery E. breeze after a dry night. During forenoon I prepared plot at E. end of upper plot in back garden along the row of

25.4.63, cont.

Scotched willow & planted 3 rows of Dutch "Record" potatoes. In afternoon I cut first lawn & in evening I cut path in the boggy. In morning yesterday I took 6 photo. of the group of *Rhododendron* around "Elizabeth" at NW corner of back garden, which include "Yellow Hammer" & today I took photo. from back lawn of the rock garden with *Rhodo subiginosum* behind it & surroundings. Sun yesterday, bright but no sun today, exposure in each case 1/30 th of a second.

26th April. Another dry day, bright & sunny early, cloudy with cool E. breeze at midday & afternoon, calm & almost sultry in late evening, after almost a white frost.

Spent most of day preparing & planting 3 rows of Kevin Peck potatoes in main plot E. of Daisy's 2 frames. About noon a Small White Butterfly flew across the garden — I think a ♀! — the first seen this year. In getting a barrow load of compost I found a very much alive "Horse leech" in it, which had come from the wee burn in mud at least two months ago, & I think longer, & when dropped back into the water seemed very happy. Two days earlier I had found another leech equally alive in the compost heap. Removed a rooted cutting of the *Le. hibernica* *Salix* of *Hylicipolis* & replanted it in the boggy along Anderson's fence near the garden hut.

27th April 1963. A very warm & muggy day, after rain during night, with occasional sunny intervals, but overall cloudy. Spent day shifting plants which were not doing well - a number of the larger Geraniums, which have almost died after flowering, will last year, to the foot of back garden; Rhod. dichroanthum from N. of steps W. of greenhouse to NW corner near wuggers, but fear it is too far gone to recover & now has only one green shoot; the dead tags all removed. I believe the failure of these plants may be due to their roots getting down into the subsoil or "red till" which underlies the whole area. Also 2 seedlings of Penstemon ("inhibitor") moved to N. side of wuggers opposite Dickson's (formerly Mr. Warron's) garden: this completes the row E. of the big Holly. Also moved a Campanula from NW corner to the "mound" in the wuggers to make room for the above Rhod. dichroanthum. The first shoot of Boraginaceae up in wuggers N. of the trichle & 2 yards NE of the bridge. Gt Stitchwort in flower near the bridge & many other plants now in flower or nearly so, eg. Dryas with good buds & many seedlings with spike well up, including sexatilis & marginata. Saw a Small White & Small Tortoiseshell Butterfly in back garden.

28th April. Sunday. After a warm & humid night, we had a warm & humid day, cooling in evening, with very light SW cloud drift, but after a light on-shore E. draught. After breakfast we had an hour's drizzle & after lunch another hour's drizzle, later nearly all sunny & cooler. Many additional plants now in flower,

28.4.63, cont. including the Geranium which put out one leafy shoot but was formed & was withering about 12 noon. At 1.15 pm I went to the wuggers to look at the top of the Penstemon & the Geranium. Under a large stone beside the middle wuggers, I found the first Geranium zigzag, the side W. of top of greenhouse. I found, at last, a large, rather dark coloured specimen of the only Linum cinereum-nigrum, which I have always felt sure must have been in the original woods, but could never find because I presumed it was not to look for it at night & when raining. Workers of Bombus jonellus (frequent) & of B. lucorum (one the first!) seen in back garden during the day.

29th April. A dry day, after a dry windy night, with cool westerly wind, but some warm spells of sun & odd showers which passed us by over the hills. Spent much of day putting up out-proof fence where Dickson's & Bonin's gardens meet, on N. side of the wuggers in back garden. Wire netting 1' at base of planted seedlings of Campanula 3" apart at foot of the netting. Removed plants of Penstemon sexatilis & dumped them in the wuggers near bridge to see if they like to. George here for tea & later we took car up to woods & brought back a dozen nice "rocks" for the edge of the new - about to be completed - pool in back garden. Swept a small brown beetle (= & ♂ Gynipid, in back garden, (=)

20th 30th April, 1963. A mainly dull & drizzly day with W. wind, after a fine night. Spent forenoon at various jobs. In the afternoon continuing to plant potatoes in main plot E. of Daisy's fence, following the 3 rows of Kew's which at top end of row for the rest of the plot & got all finished but the last row.

The 6 x 12 ft sheet of Plastolene for the new pool arrived by parcel post.

1st May 1963. Mainly sunny, yet a hard day with equally NW wind & shifts of rain & hail — a cruel day for plants after the soft weather of last week & first forecast for many areas tonight, with snow on high ground in Scotland, N. England & Wales. Finished the plot of potatoes ref. to yesterday & prepared hollow for new pond so that I can cover it with the "Plastolene" sheet received yesterday.

2nd May. A very cold & showery day, but with short sunny spells in afternoon when we had a walk in the plantation. I noted the Cuckoo & House Martin near Toward today, in flower. Peter we laid the sheet Plastolene over the hollow for the new pond & I put six barrowfuls of water into it to press it into the shape of the hollow.

Mr Harding called about 5 P.M. & gave me a small seedling of Magnolia. While Marion, Fanny & Bob Carlisle came in the evening. All three are at Shinn's House with the Field Studies Soc. of Stranmillis Training College, a Belfast.

3rd May 1963. After rain at night & some shower in morning (early) we had a very nice mild sunny day, with gradually increasing NW wind. Had much to do in forenoon. In the afternoon I went down to the front in place & after dinner I planted seedling at top of plot & white dwarf, in the space between the stones. Later I cut the front lawn. At 5.30 Marion, Fanny & Bob arrived to see garden & stayed a fortnight.

4th May. Fine in forenoon, rain started at 2 P.M. In forenoon I got the 6th row of main plot (W. of Daisy's fence) & planted the 2nd row W. of the fence with potatoes & the rest of row in the middle. Showers continued at intervals & the day ended with a severe squall with hail at 8.30 P.M.

5th May ^{Sunday}. After a fine night, we had a nice sunny forenoon, with moderate breeze, cool, west wind, but the afternoon was spoiled by frequent & heavy hail showers, several which lay thick & white on the ground for some time after falling. We left home about 1.30 P.M. & walked to Bunnage's Gate of Tollymore Park, there via Riggie's back to the beach & back to old woodland by the "Stone to the mountain" sign, where we had a tea & then home via the quarry. A few minutes after returning, the hail & very heavy hail shower fell & ended every possibility of my collecting. In one sweep I got 21 new plants & insects. In afternoon there was much cutting & disturbance just inside & above Bunnage's Gate. Some beech just in leaf, many not yet out.

6th May. A very nice & mainly sunny day, but I had to spend the early part mending the greenhouse, as two panes were blown loose during night. Later I planted a row of potatoes — the first long row in main (pond) plot W. of Daisy's fence: at top 8 spuds of unknown potato from compost heap in 1962.

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3 spade of Home Guard & 1 of bottom 9 spades of Golden Wonder.
After tea Mr Haaly arrived with a box of Hyacinths - a good selection
from D.C. Dublin - collected on the salt marsh in the North Bull,
Dublin Bay. First potatoes up & planted 23rd April.

7th May. After a stormy night with heavy rain till lunch time.
Later & till 5.30 P.M. quite a fine & sunny day, but with
strong SE-S wind & much rain yesterday & afternoon.
Mr Haaly again here from 3.30 till 5 P.M. Garden too
wet to plant more potatoes. Mr Haaly now full left last
night. Mr Haaly to take a large plant of
the *Rosa blanda* (sent from the Dept. of Agriculture) to Miss Scammell
at New Ross, Dublin - now in bud, 9" across & quite
productive.

8th May. Two SWIFTS seen at 6 P.M. & House Martin
seen during forenoon & again in evening. Both birds
seen today for first time this season.

A real "April day" with hot sun & late heavy showers
in afternoon & early evening, after some rain during night.
Wind fresh from S. early, but died down & was slightly
late afternoon. In spite of wet soil I got the remainder
of the "pond plot" planted with ^{plugs} Golden Wonder potatoes,
which completes my planting for the season, as no other are
now available.

9th May 1963. A fine sunny day after a dry night, but depression
approaching in afternoon & E. wind was quite hot, 7.15 P.M. & temperature
84° F. falling, mainly. But back down to 64° at night & back garden &
forenoon. Also tried mowing in evening, for 20 minutes before heat & back
to following day.

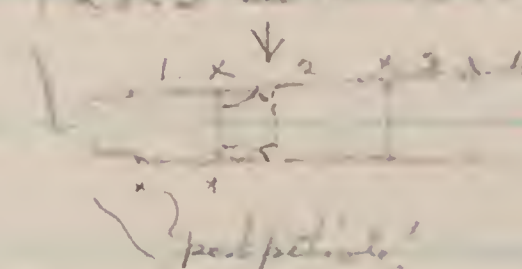
6.5.1963 = appears to be a 2nd instar, but with green & brownish green
because of a number of small spots, lot of small spots at 1st instar.
Aphididae 2 or 3, including *monilicornis* (new id.)

Phytomyza 1 =

Chalcid 2 =

Cynipid 1 =

No Swift or House Martin seen during the day!



10th May. After a stormy night (S.W.) & heavy rain, with great fall &
glacé, we had a calm & sunny forenoon with drizzle & rain at times, &
until 4.15 turned up about noon & wind moved to NW & rain, but
not continued at intervals. In afternoon I went to see Mr
Linn & returned at 6 P.M. by which time NW wind was very
full force, but rain much over. No work possible in garden.

11th May. After a day of heavy rain, we had a brilliant early morning
but wind still NW & fresh, which gradually backed to SW & fell light.
Later, in afternoon, clouds appeared & wind increased to strong from S.
but no rain fell all day until after 8 P.M. & a new depression
arrived from Atlantic. Got supply to first pond & water
again & cut both the paths in the moss, & first lawn.
Carex acutata in flower in pond & Juncus triglottis
by the bank. Two Goldfinches seen on front lawn at 1.30 P.M.
Have seen them for several days now.

12th May 1963. After rain & strong wind during night from S-SE the early morning was dull & dry, during a bright spell I took four photos in back garden to find a first & quite good note of the Kodak new fast Kodachrome film. The first taken was the general view of garden, & Rhodod. & 1 of the Rose. Caltha & all at 1/50th of a second, in fairly bright light, but not in sunlight. Later heavy rain & drizzle fell, but clear short periods occurred in late afternoon & wind dropped & it became very mild. Spent considerable time during day putting new glass in S skylight of greenhouse, which had left open last night & wind blew out glass, which cracked in falling. Lilly of the Valley in flower S. of greenhouse & very deciduous. Agaleas coming into flower.

Colour in garden now about maximum!

13th May. After a stormy night (S-SW) with some rain, we had a very squally day (W) with hot sunny spells between the heavy squalls of rain for most of the day. No work possible in garden & flower blown off Rhodod. & Agaleas, & most things battered by wind.

14th May. After a dry windy night, a very showery day, with wind dropping in evening & temperature falling, but considerable periods of sunshine between the showers, one of which in afternoon was of hail. Ground frost forecast for "sheltered districts"!!

Primula grandiflora, *Varonica fruticosa*, & 1 in flower. Gave Mr. Dickson (or Dixon?) a clump of *Chionodoxa* & a plant of *Lavender* & in their place planted the *Magnolia* recently given me by Mr. Harding & the *Skimmia cuthbertii* I got from him many last autumn, respectively. Also planted out 2 cuttings of *Ver. halliana* from greenhouse.

15th May 1963. A very nice day after a cold & windy night but no frost! No showers & plenty of hot sun & wind fell to calm by tea time. I put back lawn & pruned the Forsythia in front garden as the flowers are now fallen. In afternoon I spent some time walking paths along Anderson's stream to get rid of the weeds. Phil had come through bottom of his hedge.

16th May. After a dry & calm night, we had a dry & humidly warm day, but entirely cloudy & with increasing wind, cooler, & finally with heavy rain from 7 P.M. onwards. Spent forenoon carrying out repairs to greenhouse, with help of Mr. Baldwin (1) who came to see garden & invite us to go with him to Tollmore Park in afternoon, which we did. Arrived Tollmore Park about 3 P.M. & left at 5.30 P.M. Spent afternoon walking from car park to Spinkwee River (where it enters the park) & back by a different route. Saw a little wasp, chiefly off young beech leaves, but little out as rain threatened. Took the following: — [10 mtd. & then labelled 14.2.1964.]

Sarcoph. = Dysommata (1) (2)

Oncophanes lanceolatus (1), ant. 26.

About eight "mites" (blacks 5; Bristles 2, bympids 1).

16.5.63, cont. Got first photos on new fast "Kodachrome II" film back after processing & all too dense to be of any real use. Therefore I took about six or eight film this morning in good, but not sun, light at an exposure of 1/25th of a second, the first lot having been taken at speed of 30th & 60th of a second. [10 mtd. & then labelled 14.2.1964.]

17th May 1963. A dry day after a dry night, cool & windy (W) with only short intervals of sun & rain coming on & glass falling by 4.30 P.M. Spent forenoon clearing up path in back garden along Anderson's fence, riddling out the weeds & stones I heard a few days ago & dumping stones along side of the new burn.

In afternoon I went out of the front potatoes planted next compost heap in top border. After tea I cut the grass in the wuggie & did weeding all through the day.

18th May. After a windy night, a cold fine drizzle with strong W. wind commenced before 7 A.M. & continued till noon, then after a fine spell we had a terrific "dive squall" with sleet & hail: in afternoon showers & sunny periods alternated, but wind only eased a little between the showers & much damage to flowers on Rhodod., Azalea, etc. in garden. Glass rose a little in afternoon, but no great fall occurred. A cat dug up one of Daisy's Vegetable Marrow plants (? to get at source of smell of "bore meal" planted with the marrow). Weeding on path in garden, clearing & top dressing *Arctostaphylos* alpinum & walk in plantation in afternoon filled the fine spells of the day.

19th May Sunday. After a dry night, we had a very nice dry day with light NW wind (dropping in evening & backing to SW.) but little sun. A light shower passed over at 6 P.M.

Spent most of day weeding paths, etc., but had an hour's walk in plantation in afternoon.

20th May 1963. Very mild, after a calm & somewhat wet night. 21st but S.W. wind, with drizzle, arose at 8 A.M. & continued till 5 P.M. with short spells of sun & no drizzle intervening. Could do nothing in garden & so in afternoon we had an hour's walk in plantation. Section 4030 & 5.0 P.M. when rain had gone over & light good but variable. I finished exposure of the Kodachrome II film in camera, commencing with three views from SW corner of house looking down garden, over rock garden, along line of Anderson's fence, with exposures of $1/60$, $1/100$ & $1/250$ of a second. Next took one at $1/60$ & then at $1/100$; all the rest except the last at $1/60$, with sun almost out or hidden, very variable, but the last picture (14 213) taken in full sun at $1/250$.

The evening ended calm & sunny & pleasant! But at 9 P.M. we were startled somewhat by hearing thunder & during next half hour a thunderstorm passed over us & out to sea with about six or seven flashes of lightning.

21st May. After a dry night, drizzle commenced about 8 A.M. & lasted for some time, but it had cleared off by 9 & we had a nice forenoon, though wind turned E. & cold, coming again inland & over Dundee. The rain, however, fell till after 4 P.M. when we had a heavy slump for half an hour. Later wind came from NW & was bitterly cold.

In forenoon I got front lawn cut & in afternoon I cleared sludge from the new burn "runways" & pond in the wuggie. A ♀ Large White Butterfly seen in forenoon basking in sun on an Azalea flower & in afternoon a ♂ ditto seen in back garden. First seen this year!

212. 22nd May 1963. A very nice mainly sunny day, but cool E. on shore, breeze blew from 10 AM till 7 P.M. After a cold night, but no frost, a NW breeze. In forenoon I sent Joan-Laura & started sipping from one lawn to the second pool in back garden, but sipping failed later. Scuffled the border by the house path near west & 2nd loop. After dinner sent back Laura & re-furbished the first pool & border facing the wazzy. After tea I sent Joan in wazzy.

23rd May. A very nice day & mainly sunny, but the usual cold on shore wind during mid day. Stanley Skilleen & Jan Armstrong arrived from tea & spent evening with us. Slight white frost down night but no damage!

24th May. A similar day, but slight drizzle in late afternoon. Mr. Nora Fisher & Bill arrived in evening, this morning & spent most of the day with us, going back to Smuggdale Guest House for meals.

25. A very nice day, after early hill-fog & drizzle. Nora took Ann Watts & brother down to sea shore & showed them plants & animals found there in forenoon. In afternoon we all had a walk in the plantation. Much warmer than of late. First Speckled Wood Butterfly seen in garden.

26th May. Sunday. After a mild dry night & cloudy mild forenoon, a drop in temperature about 2 PM. heaviest rain during early afternoon. Perhaps I should spend the hours in garden, having just returned from the Dublin Zoo.

26. 5. 63, cont.

In afternoon we walked round by Tipperary Wood & lane to have a look at 10th Birches & locally Tullyhannigan Road. Showers commenced about 5.30 P.M. & continued most of the evening.

27th May 1963. A very nice sunny day after a dry night. Anticyclone! Barometer now ca. 30.51 steady.

Spent morning in town & posted plant of *Rumex "tillosum"* to Mrs. Sabamille, Ref. Mrs. Dublin, which she had grown from seed we provided, which came from a specimen in Nat. Herbarium which she had collected on sand at Loughlin in The Mallet, W Mayo, in 1961.

Seed sown just about 2 mos 1961, no plants 18 months old & in full flower.

In afternoon did various jobs in garden until Mr. & Mrs. Skilleen arrived for evening session.

28th May. After almost frost a most perfect day & mainly all hot sun, with cool, but light, on shore breeze; first NE, later SE. Went by train to 12 Arches (Slidings Ford) & spent day on sand hills between that & the sea one mile S. of Newlaugh House. Kept more to the N. than usual & over the cultivated ground. Took several photos. all at 1/60th & a second. Slept all the way to the sea & a little along sea-edge of dunes & then we walked home along the strand, arriving there at 4.45 P.M. Saw a Small Copper Butterfly & *Bombus lapidarius* (frequent) 13. *Lucorum* & *B. caucasicus* (2) but all ♀♀.

Picked up one small fragment of pottery on site of Keltan midden in dunes.

214 28.5.1963, cont.

Sand dunes S of Newburgh House, Co. Down.
Took the following insects by sweeping. [63 mtd & these labelled 26.2.64]

Scaphia 3 = *Empria tridens*? ♀. Hematine ♂ =
Allantus cinctus ♂. *Dipleron* 1 (Tachyid?) =

Beetle 3 =
Hemiptera 2 = *Pentatomae rufipes* ♂

Ichneumonidae
Cryptine 1 ♂ = *Exochus* ♂, ant. 24.
Phygadeuon ♂. *Leptocryptus*? ♂, ant. 27.
Homocidus? ♂, ant. 21: small very black, elongate, black legs, ♂.

Pimpla melanocera? small ♂, ant. 30.
Homocidus nigritarsis 2 ♂♂, ant. 21 & X, the latter with black line on face incomplete!
Mesochorus nigripes? 2 ♂♂: only one mtd., ant. 28.
Pompilids, 2 ♂♂, 1 ♀ = *Cratichneumon guttulator* (= *argutus* formis Thoms.) ♂, ant. 35; ♀, ant. 33.

♂ Gen. et. sp.? ♂, ant. 28.
Camptoplegid 6: 3 mtd = *Omorpa*? ♂, ant. 24 =
Angitia? ♂, ant. 28 =
6? ♀, ant. 25.

Beeson spp 3 = *B. areolaris* 1 ♂, 1 ♀, not mtd.
B. epistictus, var. 2? ♀, but ant. 29.
Homocidus moriticornis, ♀, ant. bitten off short.
Apanteles 2 = *A. pallipes*? ♀: not kept in prop. Also a ♂? same species.
Microplitis 1 = *M. tuberculipes*? ♂.
Microgaster 1 = *M. globatus* ♀.
Pimpla ruficornis ♂? small ♂, ant. 23, in allotype ♂, only 21.

28.5.63, cont.

Newburgh Ho. Garden, Co. DO., cont.

Meteorus cinctellus 2 ♀♀, ant. both 24: rather dark wings. I think!
Colletes ruficornis ♀. This ♀ has blackish head, thorax & abd., with a darker stripe on the normal ruficornis, wings are very narrow: also head seen, more robust.
Diaplocheilus capito ♂: not mtd. (This is like ♂ taken at Enniscorthy, DO., on (2) 22.6.1945 & ♀ at Royal Canal, KB., on (6) 23.7.1944, in most respects. A.V.)
Aspilota (*Synaldis*) *temporalis* ♂, ant. 22.
Exochus ♂ (♂ & ♀): none mtd.

Monoclonus carion ♂: not mtd.
Aphidius spp. ca. 15, mostly small black species of which 2 sp. = sp. ♂ (ant. 16?) & ♀ (ant. 17?).
Proctos, 8 mtd. 18 mtd.
Blattels, 1 ♂. Wood: 2 dog. minute. Cynipid 1 mtd.

29th May. Another perfect day. Spent day in garden & cut all 3 grass plots. Marion Farnham called in evening (from Shimna House).

30th May. We left home at 10 AM, to visit my niece Jennie Lee at Donaghadee, where we arrived at 11.40.
Before & after lunch we were admiring her garden & left in taxi at 3 PM. Home at 5.15, after calling at Lisburne to see Dr. George Broderick, Rev. G.D. Mitchell & his wife.

We ran into rain between Loughs & Lisburne & drove home on flooded roads after in heavy rain, but it soon abated & having picked up a dead (very fresh) ♀ *Exochus putatorius* at Donaghadee.

31st May 1963. A perfect & very warm day, after a heavy dew & following yesterday afternoon's rain. Lucifer growth in garden. Not a cloud all day & a blood red sun at sunset.

Spent forenoon cleaning ditch at Dickinson's to give light & air to the Pennetha "bedge" by the burn. Marion Forsyth called at aft. tea time on way home from China House party.

1st June '63. Another perfect day & the warmest of the year in west parts of British Isles. Cleared sludge from the two reservoirs in forenoon; had Mr. & Mrs. Edgar & his sister to see the garden & aft. tea; & had Lucifer & moulded some potatoes in evening! Too hot at mid day to do much. Saw first Narcissus Fly in garden for the season. Not a cloud over sun all day!

2nd June. ^{Whit}Sunday. Same as yesterday. Not a cloud & very hot sun, with less or more E. breeze.

In afternoon we walked to SW. corner of plantation on Drinahilly, & Tullybrownigan Burn, alt. ca. 600 ft. or more. On way home I swept here & there, including the "old track" & avenue E. of same (where most insects taken!) & took the following:—

Drinahilly, Newcastle, Co. Down. 4 to 5 P.M.

Smully 1 =

Heniteler 2 or 3

Pipilo cf. barinensis or

Tryphon 1

2.6.63 cont.

Drinahilly, DO., cont.

Tryphonids 2 =

Campoplegid ♀

Aphidius ♀

Colletes braconius ♀

Tryphon ♀

Aspilota 3 or 4

Dacnusa (R.) areolaris ♀ & (R.) maculipes or

Ephedrus laetator ♀

Aphidius spp. 4 or 5.

Proctos 3 to be ult.

& many Pterogaster, &c.

Chalcids ca 12.

Cynipids: several, very minute.

3rd June. Last night the sun went down "yellow" & not blood-red as on the previous two nights, so I suspected a change & this morning we had some less misty clouds & much hill-fog & the glass fell slowly all day. But from 11 AM. we had another very hot sunny day, with cool E. breeze. Some clouds at sunset & a yellow sun! George & family spent the day with us. ^{Whit}Monday.

4th June 1963. Another very warm sunny day, with E breeze, but softer than of late, cloudy & with slight drizzle in late evening when breeze had died down. Rain by 11th & 11th Caldwell to Tollymore Park. Daisy & I & the Caldwell's then walked across the Park, up by the Cascade & out of the Park by the gate W. of Spinkwee River & up the tributary glen on NE slope of Lurkin Mt. In the glen found 3 patches of *Hymenophyllum wilsoni* - the look for which was the object of the expedition - & also much Beech Fern in one place on left bank; *Cypripedium pubescens*, *Asplenium trichomanes*, abundant *Adiantum ovatifolium*, *Carex diandra* in bed of stream near waterwheel, but saw nothing else of importance, though *Betula*, *Rosa*, *Juniper*, *Holly* & one large old oak grew in the deeper parts of the gully. Swept a little only in the Park & near the deserted farm at foot of glen & took the following insects: *Saxifraga* 3, of which the ♂ & ♀ specimens taken in car on arrival & *Polistes* seen near & examined in several places: 1 ♂ mtd.

Tenthredopsis namata, v. dark ♀

Remains of *Pachynematus* ^(= Kirby's!) *dispharus* ♂

Hemiteles

Stenomacrus

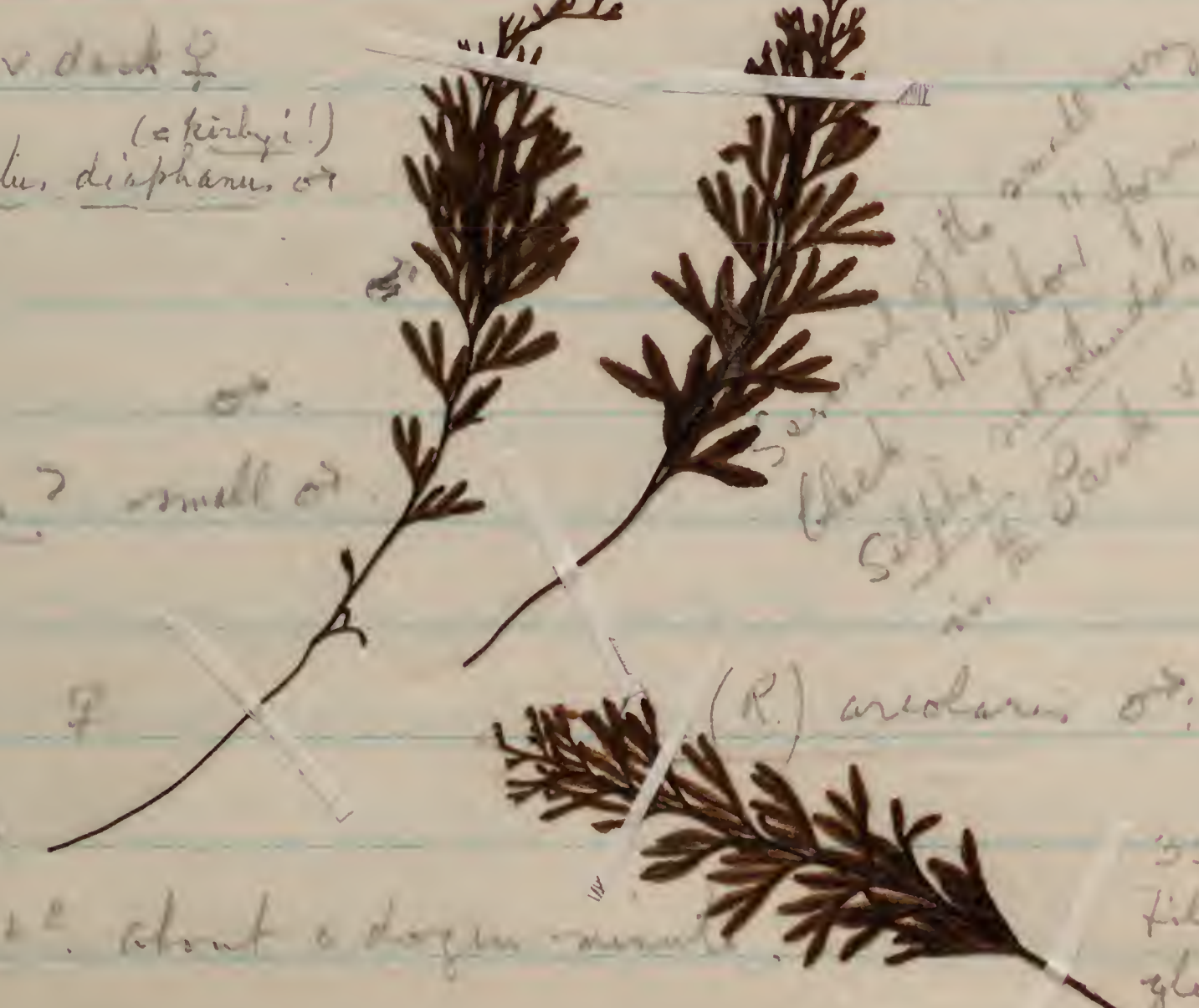
Tryphon signatus? small ♂

Polyblastus ♂

Leucospis ♀

Triclistus *auratus* ♀

Chalcids, *Proctos*, etc. about a dozen mtd.



3 specimens of the small winged form of *Stenomacrus* taken in the Park & one taken.

3 flowers of the Filmy Fern in glen on Lurkin Mt - 4.6.1963.

5th June '63. After a misty, but dry, night & forenoon the sun & sun returned in afternoon & we had a warm evening with mild sun. Spent day working in various places & in evening cut grass in the meadow.

6th June. A dull, calm, mild & misty day, with light drizzle about 11 AM & rain & thunder between 7 & 8 PM. Sowed seed of *Sax. Struth* (*Matthiola sinuata*) in 12" pot in greenhouse, as no seedlings have appeared in garden the last two years & the old plant, killed during last winter: the seeds are pretty old, but I hope for the best. The history of them is as follows: in the 1920s when we were staying at Arklow R.A., Phillips came to spend the week end with us & one day I drove him to see my station for the plant on the Wexford coast a few miles S. of the Wicklow-Wexford border. He took seed home to Cork with him & grew it in his garden a year or later. I got some seed from him & have grown it ever since. I am given to understand that it's habitat on the Wexford coast has now gone owing to erosion of the boulder-clay cliff on summit of which it grew, but have never got back to look for it myself. A week or more after tea I took a photo. of the *Wisteria* on garage wall at distance of 10 ft. exposure 1/5 second (all other exposures have been taken on this film with an exposure of 1/60th second & in bright sun. The little yellow *Tris inornata*, which I moved during the winter to back S. of the greenhouse has opened its flowers this evening after the rain this morning: the buds were tight closed yesterday!

7th June. A most warm day with only very light E. breeze & very hot sun in afternoon. Took last set photos & ported my 3rd film of Kodachrome II. Had bonfire & did various jobs in garden.

220 8th June 1963. A very warm, sunny & sultry day, after a
misty night & morning, becoming cloudy in late evening; only very
light E breeze & falling calm in evening. But both front & back lawns
in afternoon & did odd jobs morning & evening.

9th June. Sunday. The hottest day yet - & cloudless & almost
windless (E) after a thunderstorm & some rain (ca 2.30-4.0 AM)
during the night.

10th June. Yet another cloudless day, after a calm
day, night, but an E breeze kept the air fresh. Left home
at 10 AM on bike & spent the day collecting in Tollymore Park
arriving at the Curragh end gate at 10.30 AM & reaching home
at 4 P.M. On entering the Park I walked via the quarry
round S side of the E Spin, picking up insects as I saw
them but not marking: Swept as far W of the broad beech
hedge, where 2 years ago *Mantis tardus* (?) parasite were
taken, but there now I searched & rolled over 1/2 forestry
& nothing seen at them today. I then returned to the bit
of old woodland above "the stone to the mountain", had lunch
& collected there & in beech plantation. No. 1. for an hour
& filled nether No. 1. On return journey, I swept down
Reggie's Pad & filled nether No. 2.
Common insects numerous before lunch & most in killing bottle
taken during this period.

10.6 1963, cont.

Tollymore Park, Co. DO, cont.

In killing bottle & mostly taken before lunch. [10.6.63 on 19.2.64]
Dolerus ligatus ♀ in old woodland at 1.
D. niger ♀ & *D. caesus* ♂♂ common: examined } before lunch & later.
Tetraneura *no. vata* ♂♂ abundant.
Pemphigus hortorum ♀ on *Myrica* after quarry; before lunch.
Chrysomelids ♂♂ ♀ " " " " " "
Halictus confusus ♀ } by roadside before lunch. [*Crabro dimidiatus* ♂]
Andrena lupulina ♂♂ }
Hygroplitis laticornis 3 ♂♂ " " *Homocidus cinctus* ♀, ant. 22.
Tropophloeus 13 of which 4 kept to be mounted.
Phylloxera *vestigis*, small ♂, ant. 28. *Hedrodactylus* *typhae*, var. *nigripennis* Thomson. ♂, ant. 49.
= *femoratus* Haliday.
Oleum? ♀, ant. 29 =
Iselyrid ♀ = *Aeropyga rufiventris* ♀

Taken in old woodland & beech plantation after lunch = 1

Sampling =

Phaenocarpa ♂.

Hemiteles 2 with ♂♂. not kept.

Euphorus 1

Leptocryptus 1

Aspilota 8 minute ♂♂; none kept: mostly *Synaldis*!

Monobotus *caesus* ♀

Aphidius spp. 2 ♂♂

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Tollymore Park, Co. DO., cont.

Taken at 1 (after lunch) cont. 10.6.63 cont.

Proctos. 2 only kept. =

many minute

Chalcids: 1 or 20.

Cynipids: several

Taken at 2. ("Reggie's Pad") 2.30 - 3.30 P.M.

Cynipids: 7 of which 3 kept =

Stenomacrus (variegatus) 4

Pimpla notata 2 or 3 not kept =

2 others =

Cynipid 1 or 2, no result! not kept

Bracon vulgaris 2 or 3 not kept

Cynipids 3 =

Aphidius 2

Also 2 or 3, but not kept

Dacnusa 4

D. (R.) areolaris 4 - not kept

Ephialtes laticollis 2 or 3 not kept

Aphidius 2 or 3

10.6.63, cont.

Tollymore Park, DO., cont.

Taken at 2 cont.

Cynipid 1 =

Proctos. & Chalcids & Cynipids ca. 25

11th June. Very hot & sunny, but became cloudy towards evening with slight drizzle.12th June. After considerable rain last night we had a hot but dull humid day, becoming cooler in evening, but quite dry & calm.13th June. A very nice day, fresh, with NW breeze; mainly cloudy but sun at times; dry after a dry night. Left home with Mr. Caldwell about 11 AM. & drove up to new top bridge over the Glen River, from where we walked via the Ice House & "The Black Stairs" & thence up the stream to ridge S. of Thomas' Mt., to summit of latter & then down to head of valley between it & the millstone Mt. & back to the car via the old quarry. Saw *Thalictrum montanum* in usual place N. of the last leap of the fall down the Black Stairs & also a seedling of same amongst rocks some distance N. of the foot of the fall. Also saw some plants of *Epipactis atrorubens* along the 3rd scarp from top N. of the fall: where it was much better & bolder on by the steep & just seedling up fresh stream. Above the fall in one place saw a small patch of what I took to be *Epipactis palustris*.at ca. 1300 ft. alt. *Hieracium anglicum* (s.l.), *Selaginella*, *Orchis cristata* (with very heavily spotted leaves), *O. maculata*, *Cypripedium calceolus*, the only other plants of interest seen. *Penthes lucorum* ♀♀ & *Dolichopus caesus* (1 or 2) the only big macroptera, seen.

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14th June 1963. A fine & very warm day, with much hot sun. Spent much of the day scuffling the path in back garden. ^{but grass paths in}

15th June. During a fine morning, continued scuffling the path & the tree lawn & then cut front lawn before dinner & back lawn after dinner. Barometer falling since early morning & a trough from west with rain forecast for afternoon. Not long after I had cut back lawn the rain commenced & fell off & on for rest of the day, becoming heavier about 10 P.M.

16th June. Sunday. A warm calm day with hot sun & cloud alternation; no rain after mid night. In evening 7 till 8 P.M. I went into the plantations on Drinabill, S. slope side of the avenue from gate at Kilsall, up to & along the middle avenue & along the old track & took many *Parasitica* & a couple of sawflies as follows:—

Plantations on N. slope of Drinabill, Newcastle, Co. DU.
Dolerus ligaster ♀ & another sawfly ♀ [labelled on 21.2.1964]
Cryptinids 5 ♂♂

Aerodactylus madida ♂, ant. 24. *Cteniscus* ♂
Homocidus 4 = *H. alpinus* ♀, ant. 20. *H.* sp. ♀ { ant. 21, seems to be *H. fufus* below but prop. & legs of abd. quite black so not agree with typical *alpinus*, 22.5.64.
H. citropectoralis Schmid. 2 ♂♂ ant. 22-23. I suspect these are the missing ♂♂ of *abdominalis* B. 1st similar or taken in SE. of Saggart, DU, on 13.2.6. 1943. A.V.S. 21.2.64.
Theridion ♂
Camptoplegia 3 ♂♂

Beetle!

16.6.63, cont. Drinabill, Co. DU., cont.
Polyblastus 10.

Aperileptus obliquus 3 ♂♂, with pit on hind femora. ^{*Coelinius elegans* ♂, ant. 25. ♂, ant. 27.}
Bracon satanas ♀, ant. 36. *Euphorus pallipes*, 2 ♂♂: 25 ant.
Opius 3 ♂♂. *Orthostigma* ♂
Aspilota sp. 3 ♂♂. *Dacnusa areolaris* frequent. *D. longicauda* 3.
Dacnusa melanocera 1 ♀; *D. adducta* 3. *Aphidius* spp. very common.
Proctos. 12, only 2 mtd. = *Anisotenus* sp. 16.5. ♂ & ♀

Chalcids ca. 12. ^{Cynipid minute wingless}
 Small *Stenomacrus* beetle = *Gyrinus*?
 17th June. After a dry calm night, a dull calm forenoon with falling glass & rain forecast. The rain related as from SW, just after 2 P.M. & continued till late evening with SW cloud drift but SE wind in evening, later wind dropped completely. We left home in taxi at 3.30 P.M. to attend Golden Wedding celebration of Daisy's brother Rev A.D. Mitchell & his wife Nellie (née Glendinning) at Lisbane between Bonmahon & Killybegh, Co. Down, taking some plants to Nellie which I had got together during the forenoon. Left Lisbane party at 6 P.M. & home 7 P.M.

18th June. After a very wet, but calm, night, rain continued much of the forenoon with SW-W wind rising to strong & in afternoon we had gusts (& heavy showers) to gale force & hail mixed with the rain in one heavy shower. Temperature much lower than recently & a cold wild evening. Received ^{alive} ♂ *Amphystelus armatus* from S. A. Baynes & the pupa of *Homocidus brassicae* or *Triphaena praeusta*. } ♀♀ from which he bred it & dug in his garden at Glenageary, Co. DU.

22nd June 1963.

No rain after midnight, a cloudy morning, slight drizzle in early afternoon & then a nice mild sunny evening: much warmer! Spent day pruning or cutting down many shrubs & "hedges" along the rose burn in back garden: including most clumps of *Euphorbia hibernica*. Got Dr. Phipps M.S. ready to post tomorrow, which I have been correcting for him: it is to be published ('in English') & deals with the species of the genus *Ardisia* Marshall (Boraginaceae: Euphorbiaceae).

20th June. After some rain at night a dull forenoon followed by a fine evening. Spent most of day clearing *Ranunculus acris* (from Sandersonia, 1920) & *Hieracium* sp. from the rock garden. Planted two of the last small plants of *Primula scottii* by the rose burn, which have been in a small pot in greenhouse for a year, where two seedlings of same grown from my seed by Mr. Livers have been for about a year & the larger now in splendid flower & both looking very happy - especially the wet soil by the burn suits them! There is still one more plant of this little *Primula* growing in the upper border near the *Erina macrocarpa*, etc. from the west. back garden? ^{Have some figs taken in}

21st June. A very nice day, with much hot sun & a few light showers of which we only got a light sprinkle. Spent day burning all the prunings, etc. cut during the last two days.

22nd June 1963. A showery day with SW wind, but some sun, but many spells, after a dry night. In forenoon I finished cutting willow, the edge of the path in waggies where the vegetation had grown very tall & the wind had blown it down across the path in places. Later got front lawn cut in spite of showers & after tea I sheared the grass etc. along the edge of the rose burn near the garage. The big white *Cistus* with first flowers open & a few abnormally early flowers on the *Eucryphia* in waggies.

23rd June. After a dry & calm night, a rising SW wind brought a very slight drizzle at 9.30 AM, which after dinner became heavier & heavier till dusk, by which time the wind had dropped. Sunday. In forenoon I walked via Dorset Park up through the woods & along Glen River to the new bridge near top of the plantation & thence westwards on S. side of Grimshill to home, without home, to put on my 'mac'. After dinner I collected (for drying for Mr. Garrick) specimens of sedges which we will not meet with around Ben Lomond, as a part of Mr. Garrick's lesson in sedges, which I have promised to give him when we meet next month at Lavers.

24th June. Monday. Another showery day, with light SW. wind, but stronger in evening. Great growth in garden after recent rain. Could do little but weed & in evening cut outside of Barbering front hedge.

228 25th June 1963. After a dry night, a nice shower
but heavy shower from 2 P.M. onwards. Driven by Mr. M. J. Baldwell
in his double-cab, Portfield, Co. Kerry, towards
a quarry, to Long Lough (N. of Portaferry) to look for
Flagbit (*Hydrocharis maritima*) but could not find
any along S. side, nor in inlet drain just N. of E. of the
lough, nor yet in the inlet drain through site of
the dam (now dry & reed-filled) at Bishop's Mill
(fide Mr. Baldwell). Inlet drains of Lough, from all
of these 3 sites, it was recorded by R. L. Praeger in
1903 (in l. nat.), although *Typha angustifolia* is still
abundant there. Magnificent growth of *Carex disticha*
in the inlet S. of Lough, but the only other sedge seen
here were *C. hirta* & *C. vesicaria*, with plenty of
Orchis fuchsii & one plant of var. *O'Neilii* Grace.
In scrub west of the inlet was a small tree of Spindle
(*Euonymus europaeus*) in full flower. The vegetation
was all very wet, but by the time we got to Bishop's
Mill I was able to do a few minutes sweeping &
took a few Hymenoptera. We next went 2 miles
north & leaving the car on main road walked along
the shore for half a mile & had lunch on the raised
beach at 1.15 P.M. This area is what Mr. Baldwell
calls "the deer park" & the larger island off shore is
marked "Ballymallon Island" on my old 1" ord. map.

25.6.63, cont.

229
L. Lough district, N. of Portaferry, Co. DO. cont.
After lunch I had 3 sweeps at high tide mark amongst
Juncus, &c., before a heavy shower drove us back to
the car & ended collecting for the day. We next drove
across the peninsula to Clough Bay & N. to Portaferry
Harbour, where a strange flora has sprung up on the
"filled" or "damped" material dredged in recent extension of
the harbour. Here I collected *Carex pygmaea* (or *tenax* folium?), *Medicago lupulina* & two *Trifolium*
which proved to be
& also saw *Hemlock*, *Replenus maritimus*, *Erodium cicutarium*
& many other casual weeds.

Larvae swept on site of Bishop's mill pond!

Chrysomelid motatorius ♀

Hermitia ♀.

Tryphonid 1 =

Opius sp. 2 ♀♀ & *O. pectorator* Hal. ♀, ant. 21, wings rather dark.

Opius opaculus sp. n. ♀. Type! ant. 34: mesothorax, tergite 2+2, & mesopleura, with
microsculpture, with, sternalia strongly punctate, notched & complete, but rudimentary; black. 29.6.63.

O. ♀, ant. 25.

Chrysomelid areolaris ♂ & several others with sternalia
& very long radial areolet; but then also *areolaris* & the one with the ant. 21-seg.

D. (R.) affinis ♀, ant. 22; tergite 2 strongly punctate at base!

Chalcid & *Proctos* ca. 10.

230 25.6.1963, cont.

Shore (H.W.M.) opposite (N. of) Ballygallon Island,
Strangford Lough, N. of Portlerry, Co. DO.

Hemiteles

4000, 19.

H.

♂, red abd., long narrow tergite 1, small sp.

Cryptine ♂ =

Dacnusa areolaris & *maculipes* 1 ♂ of each.

Cryptoserphus? 2 ♂♂.

26th June. After a dry night, a nice & dry & sunny
& calm forenoon, during which I finished cutting the barberry
front hedge & cut back lawn in afternoon. A few showers
later, but the only heavy one fell at 6.30 P.M. Jan Armstrong
& his fiancée arrived at 7.45 & left at 11.0 P.M. to
go motor on a trip to the Ben Bulbin area.

27th June. A poor miserable & cold day with in
forenoon a fresh N.W. wind & in afternoon a
steady drip with falling wind. Still dripping at 10 P.M.
but now calm. Received letter from Rev. P. Garnett
when I had once met in west corner in Bee Lovers
& showed him *Veronica fruticosa*. He wrote asking
about *Cryptoserphus montana*, a form he seems interested in.
Replied fully & also ref. to *Sax. rivularis* on the Ben.

28th June 1963. Another cold day with almost
continuous drizzle from 8 A.M. to dusk & light N.W. variable wind (231)
after a dry night. Beyond some pruning in front garden I could
do little outside, but in afternoon I did get planted out (in the
Chionodoxa strip S. of greenhouse) the following rooted cuttings which
have been in pots in the greenhouse for a year or more: -

Camellia: 3 well rooted & 1 thick from plant in front of house, but?

Erica

6 or 7 small but well rooted.

Azalea

1 - the only one of more than a dozen slips which rooted!

I also planted out behind the seat on the brown path in back garden. The
only 2 slips of *Erica cinerea* var. from Tranny Valley which survived
the winter (1 of those taken last August (14th) & put in 12" pot in greenhouse.

Other slips taken on same day & in same place planted behind same seat
on 15th Aug '62 & about half of these now alive & doing well.

29th June. Another dull & very damp day, with light drizzle from
9 A.M. till noon; afternoon milder & dry, with fresh N. wind dropping
in evening & milder very bad. Managed to get path, etc. in rough
cut though everything dripping wet & an awful job it was.

30th June. Sunday. The best day of the week, mild
with light N. wind, falling, calm in evening, & yet we had
a short heavy plump of rain at 1.30 P.M. & a thick drizzle
commenced at 7.15 P.M. In forenoon I had same walk
as last Sunday - 10.30 to 1 P.M. Found 3 clumps of
Carex patula by small trickle the mile below the
Shepherd's cottage on Brinnabally, where path leaves
road at Kimpin bend, to go down hill to next
"the old track" & a vigorous green grass beside road
at 650 ft. S. of Brinnabally tower.

22nd 1st July 1963. Everything wet & dripping, but got frost laid out in afternoon & went for a hour's walk in plantation after tea. Hill-fog covered all the hills & at times even the low ground.

2nd July 1963. Similar, but no rain fell till evening & things had begun to dry, but could do little in garden. Spent till 6.30 P.M. with Mr. & Mrs. Baldwell (No. 2)

in Ben Brown Park. Got back home in early afternoon.

3rd July. Same as Monday (1st): everything damp & dripping in forenoon, but very hot in early afternoon & sun broke through for about half an hour.

In forenoon I had an hour's work in the plantation & spent afternoon & evening pruning & reducing overgrown plants in rock garden & filled the spaces with fresh soil.

4th July. After more drizzle, etc., in forenoon, we had a dry afternoon with some sunny spells & I lit a bonfire in evening to dry out the damp remains of the last one.

5th July. A dry day! I started a bonfire about 10 A.M. & kept it up till 10 P.M. & got a lot of rubbish burnt. Also cut my side of Anderson's hedge along our pear & potatoes at W. end of upper border in back garden.

6th July. After prolonged & heavy rain during night, we had a damp but dry forenoon with dense hill-fog, but afternoon gradually improved &c. Mr. Baldwell & I went up through the plantations to summit of Drumahilly, 810 ft.,

6.7.63 cont.

& came down by road to the Shepherd's cottage & home by the old track. I have at last got time to take an interest in the sedge & today we saw 7 (*fluviatilis*, *pollux*, *demissa*, *juncea*, *trilobifera*, *schizata* & *biuncina*), specimens of which I took home to study.

7th July. A dry, but dull day, after a very windy night, with only a few short glimpses of sun. Sunday.

In forenoon I walked up the Bonard waterfall to the new bridge & home by the new road & the Green Hill.

In afternoon I did odd jobs in back garden & put a mulch of newspaper around roots of one of the dwarf evergreen *Agapanthus* in SW. plot near the kitchen, as it has been preparing to die all the spring & looks sick, with no new growth so far. This newspaper-mulch moved I think two plants of *Rhodod. bartramianum* - sown in front border two years ago, so that both recovered & one is flourishing, while both flowered the year.

Wrote to David Waldenhouse, the last we met at the Yellow Cowrie last year while at Larnion.

8th July. Another dry day, but cloudy with light shower about 1.15 p.m. & dry night! Got frost laid in forenoon & path, etc., in evening in afternoon & went for a walk in plantation after tea.

9th July. After another wild night (W.I.) which broke down & twisted many potato stalks, we had quite a fine, but cloudy, day & I got a lot more refuse burnt as well as hoeing some paths. A very slight drizzle, however, occurred from time to time, but too fine to wet the pavement on road. In evening I had my walk in the plantations.

23⁺ 10th July '63.

A fine day after a dry night ending in an almost all-rainy evening. Received plant of Ragwort (*Hydrochloria morosa* - name) from Miss Marion Dwyer which she brought home from Port Lough.

^{upper Lough Erne} near Ennistigill, Co. Fermanagh. She describes it as "growing in a very stagnant ditch - some of it in a cot which was full of water & had seen better days". A cot is a flat-bottomed boat or punt! I have planted in large pieces in the Iris pond fed by the trickle in the wiggly & several loose bits around the margin of the new plastic pond. Later I received a rhizome & shoot by parcel post of *Cyperus longus* for L. Haig & Co. Ltd., ordered by some anonymous person (I fancy Mr. Nora Fisher & Killan), which firm run an "aquatic nursery" at Beacom Brook, Newdigate, Surrey. I planted it also on S. margin of the Iris pond in the wiggly. In afternoon I had a bonfire & in evening did some hoeing of paths & then had 1 1/2 hours' walk in the plantation & saw 30 sedges on upper side of road between the Forester's & the Shepherd's cottages (on one side of the road!); of which 28 were *Carex linum* & one each of *pallens* & *syriatica*. The last two were growing ± intermixed.

Took 3 photos. in garden in forenoon at 1/60th sec. in weak sun: of *Geranium pratense*, *Lachium vulgare* & *Rhodo*.

These were very dense but colours good! A little under exposed?
A. S. G. 1963

11th July '63. After an attempt at a bit of frost during the night, a ²³⁵ very nice day, except for a few minutes drizzle about 3 P.M. The wind went E. & met the W. wind drift. George, family, & Mrs. Dods spent the day with us, coming from Ballymore. Mrs. Dods reported about almost a frost there last night. Spent day hoeing paths here & there & out back lawn. In evening went for hours & a half's walk in the plantation, including investigation of floors of the old quarry on middle road, 200 yards W. of the Green Hill path in Dinnchilly, where the only plant of interest seen was the New Zealand *Epilobium pedunculare*, which now covers a large area of deep bare rock & boulder clay at ^{precipice} ~~base~~ of the escarpment of the quarry.

12th July. A very nice forenoon, with much sun & light NW. wind, but a cold strong onshore (E) wind got up in aft. & we had a heavy shower at 4.30 P.M. & after this it was mainly cloudy with mist on the hills. Spent much of forenoon clearing up front border & after tea had two hours' walk to new (top) bridge over the Glen River & home via the Green Hill. Saw one patch of *Epilobium pedunculare* on wet-slope on S. side of the road 80 yards E. of top bridge.

13th July. Following a forecast of ground frost for early night, it was announced on R.B.C. today that frost had occurred in the Outer Hebrides!!! We had only a very heavy drizzle. A very nice day followed, with considerable breeze, but chilly wind; first from W. gradually backing SE & a trough approaches from SW. Finished clearing up front border & in afternoon I started down hill along the burn in front garden as it was sweeping the Agaves, &c. In evening had 2 hours in plantation as far as the new bridge over the Glen River.

236 14th July 1963 Sunday

After very heavy rain during the night & strong SE wind, these conditions continued till after midday. During afternoon & evening we had many spells of showers. In forenoon it was very warm: later it became cooler, wind veered to SW & fell light, except in squalls. In evening I walked up to the old iron gate above the shepherd's cottage, outside the wall of the Tullyhannigan Burn, over the wall & home through the plantation. The *Pinquillo lusitanicus* I recorded above the said cottage & a new flower on it.

15th July. Frequent showers & only brief sunny intervals all day, after a dry night: wind squally SE to SW, with a severe deluge about 9.30 P.M. No work in garden.

In evening I walked to the shepherd's cottage & returned by another route.

16th July. Heavy rain commenced about dawn & continued till nearly midday. Very hot & close in afternoon, when S. wind veered towards NW & dropped. Raining again at 6.45 P.M. W. Caldwell took charge of pots containing *Cystopteris montana* & *Aspid. lutea*. I was at the work in greenhouse & in ground in garden except those with 2 new plants (2) & the orchid *Phaj. ...*

17th.

237 SCOTTISH TRIP 1963

18th July 1963 In forenoon packed, saw Mr. Caldwell & got ready for journey. George came for lunch & at 2.30 P.M. drove us to Belfast & at 7.30 to the boat.

19th July Arrived at The O'Sullivan's, Glasgow at 7.15 A.M., left by taxi at 7.35 & caught 7.55 train at Buchanan St. Raining & drizzling all the way to Killybeg, where caught 10.35 bus to Larne, by which time rain had stopped & weather soon brightened & we had a lovely morning, afternoon & evening. Found the Stranmillis Training College party from Belfast waiting for us & in afternoon I went up the hill to show Bob Currie *Tofieldia*, *Helianthemum*, the long on scrap of moorland, etc., & we walked E. along moorland to Larne Burn & back to hotel at 6.30. There I found Mr. Philip Garrett waiting for me. We had met in the West Borneo just nine years previously & recently he had written me to ask for particulars for finding *Cystopteris montana* at NE angle of The Stairs & I had given him details which had enabled him to find it there & in Larne Burn's second station on 13th crags on W. side of the Fin Gley N. of the Stairs. He reported having seen the fern in both places & stayed to dinner.

258.
20th July 1963.

A very nice nearly all sunny day, with fresh cool breeze down the loch. Got back about 11 AM, proceeded down the loch to the old pier on Loch Tay. Swept down loch before lunch & in afternoon along right bank of the Laxen Burn from the loch to the bridge carrying track to the cemetery, after lunch = station 10 & 2 respectively. Collected at 1 = Laxen Burn 14.0 till 12.30 AM.

Crabro elongatulus ♂; put in sorted box! [21 mtd from 1st these labelled 23.2.1964.]

Spilomena troglodytes 2♀♀.

Dryinus sp. 1 ♂ mtd. =

Cryptine 3: 1 mtd. = *Hemiteles*? sp. ♀, ant. 23, tergite 1 & 2 red shaded & micro-rufous.

Stenomacrus ♂ = *S. carbonaria* ♀, ant. 19.

Gen. et sp. ? [Nothi, like this seen when labelling A.V.S. 25.2.1961]

Camptopogon 2 = {*Angitia*? sp? 1 small ♀, ca. 9mm, ant. 23.
Trophocampa mesogaster ♂ ant broken. Put in coll.

Pachyneura 1 ♂, 2♀♀ = {*P. aethiops*? ♂, ant. 28.
P. basalis 2♀♀, ant. both 19: 1 very red, the other with only pro- & 1st ventrad.

Opius pendulus ♂, ant. 19. *Blacus tripudians* ♀, ant. 19.

Alysia ♂ = *Microgaster curvica* ♂ (= *M. rubicundus* Stålger) outside 1st & 2nd seg. of 1st ant. 29: put in coll. The first ♂ taken before or after this.

Aspilota 2 = {*A. nigrescens*, small ♂, ant. 21.
ant. 29: put in coll.

Aphidius 2: not mtd.

Ephedrus lucidus ♀, ant. 11

Proctos 1: not mtd.

Diospilus capito ♀, ant. 22

259.
20.7.63, cont. Laxen Burn, 1st & 2nd.

Proctos 1 ♂: only 3 mtd. = *Cryptoserphus maculipes* Hal. ♀, also 1 ♂.

Conostigmus? sp.

Chalcid 1: none mtd.

Euclyptus none mtd.

Taken at 2. Rt. bank of Laxen Burn.

Euclyptus pygmaeus ♂: ant. 22. [10 mtd. from 2 & 3 mtd. labelled 26.2.64.]

Cryptine 1: not mtd.

Myriarthrus cf. rufipennis? ♂, ant. 26.

Blacus 3 = *B. tuberculatus* 2 ♂♂, 1 ♂, ant. 21. *B. maculipes* ♂, ant. 21.

Opius 4 = *O. (B.) carbonaria* ♂, ant. 21. *O. xanthogaster* ♂, ant. 21.

O. stenops ♂, ant. 22, with dark mesothorax. *O. caelis* ♀, ant. 24.

Aspilota spp. ♂♂: none mtd.

Dacnusa petiolaria ♂, ant. 48: a very dark example!

Dacnusa melanocoma 2 ♂♂, 1 ♂, ant. 23: stigma narrow (? folded).

Coelinius "sp. Stige"? ♂, ant. 41

240 (2) 20.7.63, cont. - Larrea (bush) cont. M.P.

Minute Proctos: only one small *Exochus* sp. mtd. =

Chalcids: none mtd.

by 20.7.63, new mtd.

(2) 20.7.63, cont.
buff of moss growing on a
rock surface by the bare stalks
of *Salix caprea* & *Hebe* *aulae*
Put in coll.

21st July 1963. A dull & misty day with strong SW-W. wind on the higher ground. Bob & I left the hotel at 10.10 AM & Mr Robertson drove us up to the old water wheel on Larrea (bush) (left bank) from where we followed the track up the burn to the dam & then the tributary to the east into the Yellow Burnie. At 1 P.M. we had lunch about 3/4 mile above the dam & then continued our slow progress towards the east, seeing only patches of *Larrea microphylla* along right bank. Higher up saw all the usual plants, including *Salix caprea*, but the clump of *Saururus* on small cliff above right bank seemed to have disappeared. On the east side in Yellow Burnie the sedges, rushes, &c. were eaten down almost to the roots by sheep, so that we failed to find any flower spikes of *Larrea microphylla* or even any trace of *Kobresia*, only 2 *Juniperus communis* &

very few & few spikes of *L. microphylla*. *Trichomanes* *procumbens* seen in three stations, *Barra repens* on the slope NE of the col, but could not find *Gnaphalium* *uliginosum* in the swampy "barra" behind the upper, but at the slope we were handicapped by the driving & rather thick mist.

22nd July. A nice dry sunny day. In forenoon walked with Dr. Elaine & John & Bob & I down the glen of Larrea (bush) & back by the dam. The *Vicia repens* on rocks, ground which was there about ten years ago. In afternoon we, Mr & Mrs Garrison & Dr. Elaine spent the afternoon on the hill above the old pier. Sample for a few minutes in some places. The sandy bog on the Robertson W. boundary. [14 mtd. & these labelled 27.2.64.]

Here took the following insects: — *Phaenocarpa oculator* ♂, ant. 22.
Cryptine 5, including 2 ♂♂, 1 mtd. *Stylocryptus profligator*? taken on low *Salix* flower bud. 1 small ♀, ant. red & black, no white band, ant. 23. (? sp. n.)
Stenomacrus sp. affinis (St.) ♂, ant. 22.
Ichneumon *maculipes* ♀, ant. 20.
Opius 3: only 2 mtd. = *O. xanthogaster*? var. with almost interstitial recurrent n. & rather dark wings: ♂, ant. 34.
O. steno ♂, ant. 24. *Aspilota* *frugiperda*? ♀, ant. 20. put in coll.
Acromyza 1: only one mtd. = *A. adducta* ♀, ant. 31.

23rd July 1963, cont.

Loch Tay shore, Larrow, M.P. cont.

Aphidius 5: none mtd.

Proctos. ca. 10: 5 mtd. = *Exallonyx gracilis* ♀, *Exallonyx confusa* ♀.

Phaenocarpa pallipes ♂, *Galasus* sp. 2 ♂ put in coll.

Pelops ♂ =

Chalcids - 2: none mtd.

22nd July '63. Falling glass! Rain came at 9.4 AM. & cont. all day.

24th July '63. Glass still falling at 8 AM. with rain, but by 11 AM it had stopped falling & there were signs of a clearing. At 11³⁰ & 11⁴⁵ Gervais, H.E. Green & I started out with bagged 9th & went up the track by Larrow Burn as far as the *Lactaria cordata* & then made for the southernmost gully on Muall Gracide, having lunch by a small burn at 1.20 on the way. Later spent some time examining the flora of the "cliff" on S. side of the gully where grow the following plants: *Linum catharticum*, my plant at very lowest dit of scarp is still there, but had no trace of a flower spike this year; also seen *Sedum album* & *S. nigricans*, *Pieris*, *Rosa*, *Geranium sylvaticum*, *Sedum rosea*.

Gully on SW. slope of Muall Gracide, M.P.
Helictotrichum alpinum, *Draba incana*, *Holly Fern*, *Centaurea*, *Cryptopterus fragilis*, *Geranium rigidum*, *Chamaedra* 2 spp., *Urtica montana*, *Epilobium alpinum*, *Sax. oppositifolia*, *Sax. hypnoides*, *Sax. rigida*, *Sax. atellata*, *Linum catharticum* & *compertus* (small var.), *L. multiflorum* & *L. pilosum*, & very slender, succulent, grass on the small peaty, mossy (not the gully!)

Before climbing out of top of gully we crossed the main stream at ca. 2,500 ft. & came down to the river (approx. 2,000 ft.) SW.

25th July. Left hotel about 10.30 & went up the path opposite & made our way to my habitat for *Geranium pinnatifidum*, alt. ca. 1950 ft. ? I had been below a 10 ft. covered bank some 300-400 yards below hydro-electric road to the Larrow dam & almost straight down from the No. 27 "pressure valve" of the pipe line & in ± line with the Salix gully on Muall Gracide; also a line down from the site of *pinnatifidum* through the large boulder at west end of the bank would pass over the 2,500 bump on the E. edge of Ben Larrow. We next went along the road to the dam & crossing the burn over the boulder, 300 yards above the dam, set down to lunch at 1.20 P.M., where beside me I got several flowering spikes of the small *Linum catharticum*.

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25.7.63, cont. N. Borneo, Ben Lawers, M.P. cont.

which I had previously taken, amongst bellows a short distance above the hydro electric road over? After lunch we went on up to the hachan & then up to cliffs. There we saw my two *Doodia* alpine about 200 yd W. of the gully between Mull Gully & The Stave. Also saw all the usual other plants of the area.

26th July. Driven by Grant Roger to the car park on the road to hachan - we - George & I walked round N. side of Bann Gully to the west corrie of Ben Lawers & down to Corrie where he met us with car & back to hotel at 7.10 P.M.

Took a path ^{This is a new Kobresia! 27.7.63. AWS.} to the NW of car park & passed some lovely flushes on NW slope of Bann Gully full of *Juncus biglumis* & *triglochin*. Saw *Gentiana nivalis*, *Artemisia subulata*, *Erigeron hyssopifolius*, *Sedum villosum*, & in the usual places at head of west corrie. A very fine day!

27th July. Another fine, fresh, & dry day. Driven by Grant Roger & Stephen Ward ~~down~~ up the quarry road to 1750 ft. & we walked up the valley to S. slope of Ben Lawers to 2900 ft. We first went to my old station for *Kobresia* & found it still frequent, with narrow simple flower spike, some having a long narrow bract subtended & some no bract at all. See specimen on opp. page

27.7.63, cont. Ben Lawers valley, M.P. cont.

TELEPHONE:
LAWERS 214

BEN LAWERS HOTEL

LAWERS
BY ABERFELDY
PERTHSHIREJan. 24th 1963.

Dear Mr Stelfox, Thank you for your letter. I was very happy & (we all were) to know that you were thinking about coming over again this year. I shall be ho 9 for you and Mr. ... from July 19th to Aug. 8th. We had a letter from Mr. Patrick, unfortunately I cannot take until July 22nd. A friend ... a Mr. Skillen has reserved my rooms from July 13th to July ... however if I write Mr. ... Patrick, I shall try to find accommodation at Moresish or ... for the 3 nights July 19th to July 22nd. I shall write him today.

245
I did not
last year)
can be
over,
close,
winter,
was
at a
centre,
pinna,
(over!)
alpina
and W.
long for
M. Saurpt
tributary

TELEPHONE:
LAWERS 214

BEN LAWERS HOTEL
LAWERS
BY ABERFELDY
PERTHSHIRE

Replied
23/1/63
Aber

Jan. 24th 1963.

Dear Mr. Stelfox,

Thank you for

your letter. I was very happy
indeed (we all were) to know that
you were thinking about coming
to Lawers again this year. I shall
reserve no 9 for you and Mr.
Stelfox from July 19th to Aug. 8th.

I have had a letter from Mr. Garrick,
but unfortunately I cannot take
them until July 22nd. A friend
of yours a Mr. Skillen has reserved
all my rooms from July 13th to July
22nd, however if I speak Mr.
Garrick, I shall try to find
accommodation at Morenish or
Feasnan for the 3 nights July 19th
to July 22nd. I shall write him today.

I am so glad that you and Mr. Stelfox have kept well, and that the winter has not been too severe with you.

We are very fortunate here - we have had little snow but quite hard frost. Alister was just mentioning this morning that his outwintered cattle were looking very well indeed!

We all send our good wishes to you and Mr. Stelfox, and it will be with great pleasure that we look forward to having you with us in July, so while there take great care of yourselves.

Yours very sincerely,
J. Robertson.

Telephone 2474

Newry,.....

13/4 1962

M.....

Bought of

Daisy Hill Nurseries Ltd.

1 Hebeous St. August
1 Daphne collina
1 Lysium farreri
1 Erica aurea folia
1 Daffodil
1 Double Primula
1 Primula marginata

5 =

8 6

3 =

3 6

3 =

3 6

3 6

10 =

Crone & Curry Ltd., Belfast.

paid

00695

244

25.7.63, cont. N. corner, Ben Lawers, M.P. cont.

which I had previously taken amongst bellows & short distances above the hydro electric road. After lunch we went on up to the Rock & then up to cliffs where we saw my two *Woodia alpina* about 200 yds W. of the gully between the Gully & The Stair. Also saw all the usual other plants of the area.

26th July. Driven by Grant Roger to the car park on the road to Luchan-na-Lairge & walked round N. side of Ben Lawers to the west corrie of Ben Lawers & down to Corrie where he met us with car & back to hotel at 7.10 P.M.

Took a path ^{This is a sandstone ridge} to the NW of car park & passed some lovely flowers on NW slope of Ben Lawers full of *Juncea biflora* & *triflora*. Saw *Gentiana nivalis*, *Veronica rubella*, *Erigeron myosotis alpinus*, *Sedum villorum*, etc., in the usual places at head of west corrie. A very fine day!

27th July. Another fine, fresh, & dry day. Driven by Grant Roger & Stephen Ward ~~down~~ up the quarry road to 1750 ft. & we walked up the valley to S. slope of Ben Lawers to 2900 ft. We first went to my old station for *Kobresia* & found it still frequent, with narrow simple flower spike, some having a long narrow bract subtended & some no bract at all.

See specimen on opp. page

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27.7.63, cont. Ben Lawers valley, M.P. cont.

Next went to look for *Carex rupestris* & could not see it in my station (though seen by Waltham last year) & Ben Lawers *Pogon* *Gentiana nivalis*, which seen in several places & much larger than on Ben Lawers. Plants also seen were *Carex atrata*, *C. acutiflora*, *Juncea triflora*, *Potentilla erecta*, *Salix aurita*, *S. reticulata*, *S. cf. nigricans*, *Vacc. uliginosa* (including the big plant growing out of the rock at a waterfall in the burn!), *Beech Fern*, *Alb. alpestris*, *Holly Fern*, *Cystopteris fragilis*, *Lycopodium alpinum*, *Veronica fruticosa*, *Coar. Parnassia*, *Trollius* (over!) *Sedum rosea*, but could not find the *Woodia alpina* seen by J. L. Colville & myself in 1951.

28th July. Sunday. A fine morning & very warm, wind W. In forenoon I went in the car to Loch Tay for 1 1/2 hours (1) & in afternoon, 5.0 to 6.0 P.M. I went in the upper part of the glen of the Ben Lawers Burn tributary & below the road (2).

Insects scarce at 1, plentiful at 2.

Kobresia

24th 28.7.63, cont.

Lane to L. Tay, Lanes, M.P.

Insects taken at 1 (10.30 AM till noon).

Spilomena bogdanovi 1♀

Microcryptus 3: 1 mtd. only = *Microcryptus nigrocrater* ♂, ant. 28. In coll.

Stenomacrus clavicornis 2♀♀, ant. both 18.

Proctos. dorsalis ♀ not mtd.

Perilissus orbitalis ♀, ant. 34. In coll.

Mesochorus multicolor ♀, ant. 35.

Bracon fulvipes ♀; not mtd.

Rogas reticulatus ♂, ant. 48. [The only other specimen, also ♂ of this species I have taken was swept about dusk at Tullaghan, Co. LE. on 3 Aug. 1938. Put in coll. AWS. 29.2.1963.]

R. irregularis 1♂, 1♀, ant. both 52: the ♂ smaller & with darker wing. The ♀.

Euphorus pallipes, large ♀, ant. 22.

Opisus pallipes ? ♂, ant. 27.

Phaenocarpa tabida ? ♀; not mtd.

Aspilota sp. ♂; not mtd.

Dacnusa spp. 6

Cochilus n. sp. Sligo: ♂, ♀, ant. 41 & 35, respectively: Both put in coll.

Aphidius spp.

Ephedrus 1 ♂, 1 ♀

Proctos.

non mtd.

Chalcids.

Glen, Lanes, M.P.

24th

Insects taken at 2 (Sun till 6.00 P.M.).

[15 mtd. from 2 others labelled 1.3.63.]

Chalcids 6: none mtd.

Microgaster 1: not mtd.

Rogas irregularis ♀; not mtd.

Aspilota 1: not mtd.

Microcryptus ♂, ant. 28.

Stenomacrus: abundant: only 2 mtd. & both are ♂♂ of 13-segmented, ant. both 22.

Pentapleura pumilio 2 virginiae ♀♀, ant. both 19.

Olysipterus fuscicornis ♂, ant. 36. Put in coll.

Phaenocarpa tabida ♀, ant. 40.

Dacnusa: none mtd.

Aphidius spp. none mtd.

Proctos. 5 mtd = *Cinctus fuscipes* ♂

Galesus sp. No. 2, 2♂♂: in coll. *Galesus* sp. No. 4? 2♂♂: in coll.

Chalcids: none mtd.

Beetles 2 = *Polyphaga ferruginea*? &

24th 29th July 1963. A very fine & hot day, with light S. breeze, after a misty night & early morning. The party, self, Mr. & Mrs. Garwick, Mr. Green & Miss B. Benthall (of the hotel) left hotel about 10 AM. & walked to Lookan near hotel & back round halfway up to the cliffs & found a good patch of *Lycopodium obscurum* (with *Pteridium aquilinum*) on one of the large fallen rocks. After lunch went on a picnic near the two plants of *Hypoxis alpina* & took two photos, at about 100 yds. in sunlight. Lookan went on along base of main cliff almost to top & saw all the usual plants, but nothing new. Then went on to hanging garden under the Raven Rock & saw good small patch of what I think is *Dracopis* *herveyi*, which in my opinion is merely a form of *D. caerulea*, but could not find any of it elsewhere this year. Saw *Leptocarpus* *minimus* & a small black velvety limonite covering the stone & rocks in one of the rivulets near where moss patches are taken into museum, as in 1962. After afternoon tea took a brief look at base of cliffs to S. & saw *Salix reticulata*, *Scirpus alpinus*, *Agrostis*, etc., & then went back along the two cliffs facing E., where saw *Agrostis*, *Veronica filiformis*, *Erigeron*, *Baron strata* & all the usual plants, & the dark blue stone of the Lookan, seen & at N. shore & back by the lake, arriving at hotel at 4.30. The goat-smeared dinner at 7 P.M. Mr. J. L. Colville had arrived at hotel during the afternoon & Miss Benthall left by 6 o'clock bus.

30th July 1963. Another very perfect hot day. 249. Picked up by Harold M. Gray, "miners" but at hotel at 10 AM. & drove to Rannoch By Station, via Lochmaben, Kilmory, Rannoch & N. shore of Rannoch Loch. Stopped for a few minutes on N. shore - side W. of outlet & tried sweeping, but got only a few *Hymenoptera* "*Baron strata*" & a small plant of *Veronica montana* with one flower. Then drove on to Rannoch Station & went across moor W. of ry. to small swampy pool where on Great Rannoch introduced me to *Schizogasteria pedicularis*, but on this occasion I could see no trace of the plant, though *Baron strata*, *L. filiformis*, *L. rostrata*, *L. nigra* & *juncea* (more typical to *nigra* found on the moor) & *Veronica alpinus*. Also tried sweeping here, but only got 2 specimens & a very few other *Hymenoptera*. The shore 2 stations = 1+2. On way home came by S. side of Rannoch loch & stopped for a hour. Saw remains of the old *Calladonia* *Pine* forest in trees preserved, but too hot, damp & full of flies & slugs to be able to do much collecting & saw little else. Saw on west of moor the big *Formica* ant. & took 2 V.G. moor about on top of its nest. This station = 3. Took several photos of loch shore. The party this day included Daisy, Mr. & Mrs. Garwick, Mr. Colville & Mr. Green.

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Rannoch Loch & Rannoch Tower, (MP, cont.)
307.63, cont.

Insect taken at 1 + 2 (shore of loch (N) & near!).

Aphidius sp. ♂
Aphidius rannochensis? ♂
Chalcids 3 from 2, not mtd.
Diptera, or low Rannoch? ♂
Cicada (another one) = Rannochensis vagans?
Cynipid 1 minute but not mtd.

Taken at 3. Black Wood of Rannoch! [15 mtd. from 3 + there labelled 2/3/1964.]

Nest of Formica 2 ♂♂ taken.
Crematogaster? ♂ =

Cryptine ♂, 19 = Hemiteles? ♂, ant. 20.

Microcryptus? ♂, ant. 21.

Stenomacrus cylindrus ♀, ant. 25.

Oncophanes? ♂: not mtd. Acroblopterus dentifer ♀, ant. 26.

Episus stenops ♂, ant. 24.

Phaenocarpa livida ♂, ant. 32.

Aphidius picticornis? or perhaps fuscicornis with abnormally wide head: ♂, ant. 17.

Aphidius curvae ♂, ant. 18.

Chalcids 6, including 3 minute species with lemon-yellow & clubbed antennae.

Cynipid 7: one only mtd. =

Procto. 1 =

31st July 1963. A dry day, but not so hot & sunny as previous days. Took 11 AM bus to Aberdeen & returned to Lawers by 5.25 bus. Spent rest of time in "The Birches" park at Aberdeen. Collected & filled two mugs, one in the lower part of the glen & the second the middle part (we did not go up the glen as far as the waterfalls. Saw both Melospiza pratensis & M. sylvestris & took specimens of the latter, also M. sylvestris & M. pallens. A curious plant like Lycopodium common in the lower part of the glen, of which I brought a small leaf & a head of flowers. = mesochorus temporalis? ♀ taken on bedroom window before breakfast. In coll. ant. 41.

Insects taken at 1 in The Birches: noon till 3 PM.

Leptothorax aculeator winged ♀. [21 mtd. from 1 + there labelled 3.3.1964.]

Epitormus pygmaeus = parvus, ♂, ant. 21.

Cryptine 7: 2 mtd = Hemiteles? ♂, ant. 19.

Leptocryptus ♂, ant. 27.

Stenomacrus clavicornis ♀, ant. 18.

Hemiteles? ♂: not mtd.

Plectiscus ♂, ant. 21.

Colletes braconius not mtd.

Apariteles not mtd.

252 31.7 63(1) cont.

The Birches, Abingfeldy, MP, cont.

Meteorus 2 ♂♂; not mtd.

Blacus: not mtd.

Opius: not mtd.

Adelura sylvia, a minute ♂, ant. 34; put in coll.

Pentapleura pumilio ♂: not mtd.

Anisomeris pendula ♂, ant. 37. The first I have ever taken!

Phaenocarpa livida ♀, ant. 25.

Aspilota 6: = Sp. with dimple ♂, ant. 23, 2♀♀, ant. 18 & 19

Sp. with dimple 1 ♂, ant. 20, 1 ♀, ant. 17

A (Synaldis) sp. ♀, ant. 19.

Dacnusa 7 mtd = D. bellina ♂, ant. 26. D. umbellata ♀, ant. 23.

D. aphanta 2 ♂♂, ant. 23 & 25. D. near aphanta? ♂, ant. 26.

D. sp. ? ♂, ant. 27.

Aphidid. = Praon volucre? small ♀, ant. 17. NB. I feel sure that under the name

"volucre" we have more than one species! AWS. 4/2/1964.

Proctos. Cinctus fuliginosus ♂, Cinctus pictus ♀. Anenichneutes ♂, sp. 9.

Baselys ♂ in coll. = Baselys small ♂ in coll. =

Leontopoda ♀ in coll. Leontostigma? 3 example

Chalcids

Cynipids

31.7. 63, cont. The Birches, Abingfeldy, MP, cont.

[19 mtd. from 2 & 3, labelled 5/2/64]

Insects taken at 2. Taphrochasma acuminatum, winged ♀, not kept.

Cryptinid 6: only 1 mtd. = Hemiteles apertus ♂, ant. 22.

Tryphonid: gen. et sp. ? in coll. red & black ♀, ant. 34, robust sp. =

Stenomacrus ♂ & ♀, only the ♀ mtd. = St. clavicornis mtd., ant. 18. *Angitia interrupta*? ♀, ant. 30, in coll.

Mesochorus sp. in coll. ♀, ant. 34, small, brown, partly coloured, spurs!

Helicis sp. not mtd.

Apanteles fraternus? ♀.

Mesochorus micropterus ♂, Type! ant. 20. {Whole body testaceous, mtd. ♂. Insects in black dorsad, ant. with segs 1-4 testaceous, 5 to 10 black, purple, rounded & very smooth, slightly elongated, slender, not quite as long as t. 1, with pointed ends, stout, black, eyes small & round, black, slightly pointed, head black. AWS. 16.3.1964

Mesochorus micropterus ♂, not mtd.

Opius 2 = O. flexuosus mtd.? ♀, ant. 27. O. sp. ♂, ant. 28.

Pentapleura pumilio ♀

Adelura flaviventris ♀, ant. 28.

Aspilota sp. 2: none mtd.

Dacnusa divisa ♀, not mtd. D. melanocera? ♂ & 2 others =

D. aphanta? ♂, ant. 22. D. adducta ♂, ant. 31; very nice example.

Aphidid. Praon, Tetraneura ♂: none mtd.

Proctos. Adista infopetiolata 2 ♂♂. Adista sternalis? ♂. Zygota infusoria? ♀. {all mtd. from Proctos. from last visit into my collection AWS.

Pilomus dubia? ♂. Baselys? ♀. sp. ?

Chalcids: none mtd.

Weevil =

1st August 1963.

An intensely hot day, entirely sunny till late afternoon. Driven (Mr. & Mrs. Garwick & myself only) by Stephen Ward in Landrover to Bonanish Farm, 3 miles W. of Tyndrum, from where we walked to Stob Garra on Ben Lur, Mid Perth, but did not reach the cliffs till after lunch & almost 2 P.M. owing mainly to the heat. Our first cliff was the middle one of the three "steps" on NE. side of the Stob, where we found a very rich flora with *Oxyria*, *Saxifraga* alpine, *Geranium* alpinum, & many other alpine including *Vaccinium uliginosum*. Went on up to the third "Step", where cliffs drop & a power flow where saw *Arabis patens* var. *grandiflora* Dougl. - a plant with large flowers & broad entire leaves quite unlike the lush plant from Glencoe & Galloway. *Pyrola* (? minor) seen here amongst a dense vegetation including much *Salix arbuscula*, *Gaultheria borealis*, *Rhinanthus borealis*, *Rubus saxatilis*, &c. Much *Parnassia palustris* in full flower on cliffs & on grassy slopes below cliffs & by a stream on slopes saw a patch of *Kobresia* on way up after lunch. Seedlings of *Saxifraga* seen on cliffs & much *Geranium*, *Antennaria*, *Thymus*, *Pyrola* amongst grass, &c. on slopes below cliffs. A S. end, where we had to give up our exploration as time was running out on reaching the farm Mr. & Mrs. Garwick entertained us to a much appreciated cup of tea, so that we did not reach our hotel till about 7.30 P.M.

2nd August 1963.

Misty & drizzle all day, with heavy rain at times & W. along & no sun, "dewy" all day, but in evening I went W. along the road from hotel to the quarry filled with bare rocks, which I found very brown & far over.

3rd Aug. After a calm night rather a misty forenoon, but a brilliant afternoon & then once more misty. Left hotel in Hamish Mc Gregor's Landrover & drove to the quarry, W. of Lochan-na-Leirige, at 9 A.M. Spent the day on Ben Lur on Easchan & Ben Craig. Found my patch of *Geranium* in good form & its fruits well formed & twice the size of those of the neighbouring *G. saxatile*. On way up from quarry by the burn we saw a nice bank of *Salix caprea* & there was a "green" willow next it which I did not see, but probably *Salix*. Very large broad *S. herbacea* grew on W. side above the defile (Fin Leirige!) between Ben Lur on Easchan & Ben Craig, as well as *S. reticulata*.

Sax. nivalis was frequently seen on both hills & on N. face of Ben Craig we got *Sax. nivalis* growing on bare ground of a large "mud slide" below & a little W. of the summit, near where *Adiantum* & *Claytonia* *alternifolia* grows under large rocks. Collected a few more on summit rock of Ben Craig & one on S. face of Ben Lur on Easchan. The party today consisted of Mr. & Mrs. Garwick, myself, & Miss Anne Harris, whom we picked up on the road. Mr. Green left for home by 9.32 A.M. bus for Killin. The Landrover met us at the quarry at 5.30 & we reached hotel at 5.55 P.M.

6th August. Mr. & Mrs. Gurnick & myself were driven
at 10.10 AM. by the Landrover to upper stretch of
the hydro-electric road above Baric to a point
at nearly 2,000 ft. from where we walked up S. slope
of Ben Larn, seeing on the way my lone bush of Salix
nigricans. ♀: on the rocky ground on S. slope of the E. ridge
& just below the back way into "the crater" of Ben
Larn, we each found a Parsley Fern amongst
the rocks, which is not far from the place Mr.
Daltry found one in 195-. After lunch (at 1.30)
we went across the crater & some distance down the
gully in which Sax. cinnam., Sax. nivalis, Graba
reputans, Myosotis alpestris, etc. grow.

The Sax. serotina in much better form than last year & many seen with bulbils. Left summit about 2.15 & went down the N. ridge to the shelf on which grows Scirpus caespitosus - caespitosus I found it heavily cropped by sheep & hardly a flower spike left on the ridges: then round the corner of The Raven's Rock & down its face, seeing Myosotis & other plants.

Had tea on knoll at 4 P.M. at foot & started home at 4.20, down S. side of the big cliff facing Lookan-nu - Cat. Left head of the Lookan at 5 P.M. & reached the hotel at 6.50 P.M.

258 7th Aug. 1963. Rain nearly all day, but during a clearance in afternoon I went down to Lough Tay & back for aft. tea. In morning Mrs. Anne Harris called at hotel to get me to confirm a find of *Cyrtopteri montana* she had collected in a station for the fern on W. side of the valley leading down to Glen Ligon N. of Beinn an Easain & Ben Breag.

8th Aug. Spent morning packing, lunch at 12.30 noon, left hotel at Larans at 1.0 P.M. & driven by Alistair Robertson, called on Hamish Mac Gregor in Killin & paid him very modest fee for transport (£12.5.0) & then caught the 1.50 train to Killin Junction & on to Glasgow at 4.20, where Stanley Skillem met us & we spent rest of day at his house, until time to go to Brixfield & catch back for Belfast.

9th Aug. Met by George, Nora & James Harrison Stelfox at 7.30 A.M. & went home with them for breakfast. George drove us to Newcastle, where we arrived at 11.36 & so ended our holiday in Scotland.

For 1963 & perhaps for ever on, we can't see far ahead at our age. In afternoon I burnt weeds inside & outside front gate, ^{with flame gun,} which weather I prevented me doing before leaving for holiday. After tea I dug 2 rows of "Record" potatoes planted on 25/4/63 & got fair crop of nice clean spuds. Took a ♂ *Vesper auduboni* in back garden.

10th Aug 1963.

After rain at night, a nice bright & mainly sunny day ²⁵⁹ with fresh W. wind. Got plants brought from Scotland into 6" pots before lunch & then fed seeds till afternoon tea: next day 3rd row of "Record" potatoes planted on 25/8/63 & again got a nice crop.

The plants brought home were:—

Carex grahami from Beinn an Easain.

Carex curta (? *Drucis* to *helvetica*) from ca. 3,000 ft in upper part of the N. corrie of Ben Lavin.

Carex curta from marsh S. of Lavin-Killin road about 3/4 mile W. of Ben Lavin Hotel, associated with *C. rostrata*.

Myosotis alpestris from cliffs of the Raven's Rock.

Oxyria digyna from N. side of Ben Breag.

Juncus triglumis, with *C. curta* from N. corrie.

Carastemum cf. *arctica* or hybrid from N. side of Ben Breag.

Salix cf. *nigricans*: from 2 bushes in gully on S.W. side of small burn.

Salix (cf. *nigricans* x *lepporum*) from gorge on way to Yellow Corrie. *nigricans* x *rossii* from Ben Lavin.

Finally laid path from raspberries to new pond!

260. 11th Aug. 1968.

After more rain at night, a nice mainly sunny forenoon, but showers & drizzle with light W. breeze in afternoon & evening.
SUNDAY. Spent day weeding here & there, and wrote Garvick, Green & Colville.

12th August. After a dry night & then fine drizzle from 10 AM till noon, wind veered from W. to NW & we had a very nice afternoon of sun & cloud & no showers here. Having cleaned out the upper "reservoir" & got water flowing into the first pool, I dug the two rows of Dutch "Record" potatoes in top border next compost heap. Of the four plants grown from selected large tubers (see p. 199 ante!) the two first (E.) yielded very good crops, but the last two (West) a poor crop of small tubers. Off the two rows I got two good saddle-fulls of eatable spuds, as well as seed for next year.

After tea I hoed the path by the burn from clothes line to the *Pinus radiata*. In forenoon Mrs Russell called to discuss the question of effluent from Ball's septic tank contaminating our wee burn.

13th Aug. A very nice day & so worked in garden from 11 AM till 9 PM last week. Spent most of day keeping bonfire going & got a lot of refuse burnt. Also dug the two rows & 3 plants of Ulster Chieftain potatoes (I got a heavy crop) which were planted on 23.4.1963.

261. 14th August 1963.

After a dry night, another very nice & mainly sunny day, till 4 P.M. Then thundery-looking clouds gave some rain, but sky cleared by 10 P.M. Spent forenoon potting up Daisy's *Segonia superflua*, cutting from cold frame, weeding, &c. In afternoon went with Daisy by taxi to Town Hospital for her to be X-rayed & consult Mr. J. S. Brown about her stiff neck, &c. Rain prevented work in garden, so continued the mounting of botanical specimens collected on Scottish holiday.

15th August. Another fine day, after a cold stormy night, but several showers during day & heavy rain for a time between 6 & 7 P.M. Spent forenoon clearing up front drive & weeding border along the burn. In afternoon fed snails & cleared up tank of the wee burn opposite Dickson's in back garden.

Mounting more Scottish plants after tea.

16th August. Heavy rain & strong NE wind all day, cold, so til fire in afternoon & finished mounting Scottish plants.

17th August. After a cold night with heavy squally showers, a cold steady day, with very light misty rain for a time in forenoon: warmer & drier in afternoon: wind N. backing SW & light in evening. Vermiculite received from Martin, so added some to potted Scottish plants. Spent forenoon weeding! Miss Kentland called in afternoon & gave us a history of her trip to Uganda, &c., where she joined a botanical team organised by Michael Morrison. Later I dug the last

18th Aug. Sunday. A very nice day with one
slight shower in forenoon, but much warmer &
with plenty of hot sun. Took 5 or 6 photos. of
flowers in garden (exposure mainly 1/30 of a sec.)
& got plants & ship. (of willows) ready to pack &
post Mr. Garrick tomorrow. See list.

19th Aug. After posting parcel to Mr. Garvie, I got front lawn cut before dinner. Afternoon spoiled by frequent & heavy showers, with one peal of thunder towards Hill House. But berrying hedge outside before tea between showers & after tea, as no showers, weeded the luncheon border, &c., where whin seedlings.

20th Aug. Another day of very heavy showers from 11 AM. onwards, but managed to get the rubbish which had been drying in greenhouse, as well as some from outside, burnt. Also did some digging & weeding. By second post got news that one of my Premium Bonds had been drawn for \$25.

21st Aug. A very nice mainly sunny & dry day with fresh NW wind dying down to calm in evening. Spent day trying to get rabbit burnt, cut back lawn, & dug short row

21.8 '63 cont.

of Golden Wonder potatoes, in main plot ('nest frame')
I got 19 eatable spuds. & two seed. of the plant next upper
path: these planted on 8th May '63. There's other potatoes in same
plot with full green tops & only odd spots suggesting the
beginning of blight. Also in forenoon I scuffled the gravel
outside front gate as the grass, etc., burnt by the flame-guns
ten days ago now all sprouting again & some Poa annua
in flower again.

22nd Aug. A very nice, mainly sunny day, with mites rare on hill, but none here till evening. Spent day making bonfire & dug 2nd long row of potatoes W. of the cold frames, planted on 6th May (2 unknown, Home Guard & Golden Wonder).

23rd Aug. After a fine day night a lovely sunny forenoon but rain from 1.30 P.M. till tea time & then fine again, with rather strong S wind & not settled. In forenoon I did some more clearing up my side of the ditch opposite Dickson's & cut down (removed) the one old & two young Broom, which were in the way. In evening I dug the second long row W. of the frame in main plot & there were "Blues" & planted 8.5.63.

24th Aug. After heavy rain early in night & very fine morning
forenoon, then a very heavy shower at 12.30 noon & several small showers
till 3.30; then again fine with very hot sun till sunset. Wind fresh
SW early gradually dropping to calm in evening. In forenoon I weeded
the area where the brooms were by the wee burn. After the shower I cleaned up
part of the Raspberry patch & after tea I dug 3 rows of potatoes, W. of the frame, (Golden Wonder)
Giant Fossils by claymen just coming into flower, also 2 late flowers, or Sed. globosa!

264 27th Aug. '63.

After a fine forenoon & good forecast, we had a very wet afternoon - almost continuous & after heavy rain - but evening dry & finally not a cloud at sunset. This due to a SW - NW. gale forming before noon & the colder NW. wind not winning till ca. 4 P.M. As forecast good I started a bonfire in forenoon, but drizzle soon commenced & by the time I had it well going at noon the showers were upon us & it was out by 1.30 P.M. Fed snails in afternoon & dug more Golden Wonder potatoes in main plot near pond after tea.

28th Aug. A very nice, almost entirely sunny, day, with light cool SE. breeze. But frost-burn in forenoon & did some weeding. Made bonfire & cut grass in boggy in afternoon. Finished digging Golden Wonder potatoes in main plot near pond in evening.

29th Aug. After a misty early morning, E. wind & much haze, wind went more south & we had a most lovely sunny day with light drying breeze. Spent most of day making bonfire to try to get potatoes tops burnt, but in afternoon Mr. Caldwell (1) came & helped to put new belt in old hand mowing machine & poles to hold up the raspberries. In evening, I dug part of upper rows of Kevin Park potatoes in main plot & E. of the fence & got good crop of beautiful spuds. These planted on 26th April & still green with scarcely a trace of blight.

30th Aug. '63. Very wet all day: had walk (alone) in woods. 265 in afternoon.

31st Aug. In forenoon I weeded the half-acre plot opposite Anderson's garage. In afternoon George & family were here & in evening Miss Clara & her son & Bob Castles came & brought their colour transparencies taken at Larn, Mid Perth in July for us to see.

1st Sept. 1963. Sunday. A fine forenoon & very wet afternoon, & then again dry in evening. Spent most of forenoon gathering seed of various plants in garden for Mr. H. E. Green, of Ken, The Vicar, Cheshire, & will send him seed of the following from garden but "if all viable!"

- *Antennaria dioica* (2) Kells, Co. LD. & The Burren, CL.
Laboeccia castanea, Co. Galway; *Dryas octopetala*, Co. Clare;
Lechium vulgare, Newcastle, sandhills; *Epilobium alpinum*, Ben Lavin;
Erigeron borealis, Ben Lavin; *Hypericum humifusum*, Newcastle;
Hypericum perforatum, Newcastle, ^{also *pasidum montanum* Newcastle.} *Galium maritimum*, Co. Kerry;
Lycium alpinum, Clara, Angus; *Matthiola maritima*, Co. Wexford;
Scarlet Pimpernel, pink var., Newcastle; *Potentilla fruticosa*, Co. Clare;
Primula scotica, Sutherland; *Saussurea alpina*, Larn district;
Viola lutea, var. *amoena* W. Corrie, Ben Lavin.

A. C. Farin, Jean & two daughters arrived at 2.30 P.M. & left at 7.0; Charlie wanted to discuss the Irish Sawfly list, the preparation of which he has taken off my hands. He brought me a root of supposed *Carex hibernica* (*aquatilis* x *nigra*!) from Scullis station above Galway's Bridge, near Killarney, N. Kerry. Also a Liliaceous plant from shore of L. Caragh, which he thought might be *Simethis*, but I think not. ? an alien!

26th Sept 1963. Quite a nice day; sunny in forenoon, mainly cloudy later, with one slight shower about 4 P.M.
 Received by morning post 10 packets of seed from Mrs. S. P. Beattie of Edinburgh, which she had collected in Norway, so spent morning & early afternoon getting these planted in pots & pots sunk in soil under bench in greenhouse. The medium in pots is normal soil with strong admixture of especially in top layers. For list of seeds see below:—

Also planted by the wee burn opposite Dickson's the two clumps of supposed *Carex tiliacea* & the *Lilycus* plant brought me yesterday by R. C. Farr, & referred to on previous page.

List of seed from Norway received from Mrs. Beattie.

1. *Aconitum septentrionale*
2. *Androsace*
3. *Arctostaphylos alpina* : berries
4. *Astragalus* (*alpinus* or *lapponicus* ?) up on 12.9.63.
5. *Compositae* : many many up on 12.9.63.
6. *Compositae*.
7. *Cornus suecica* : berries
8. *May Lily*
9. *Mulgedium alpinum*.
10. Ten *Senecio* from Odo Bot. Gardens.

Took several photos of plants in back garden.

27th Sept 1963. A nice forenoon, but with the usual 26th drizzly showers in afternoon & one light one in forenoon. Spent day trying to get potato tops & other refuse burnt, but only with partial success!

28th Sept. A very nice day, with only one slight shower after lunch. At bank at 10.30 A.M. Spent remainder of the day making bonfire to burn potato-tops & other refuse, and finished digging the 3 rows of Kerr's Pink potatoes at top of the main plot.

29th Sept. After a dry night, we had an early drizzle, then fine, sunny & dry till 2 P.M. after which we had almost continuous showers, with one very heavy shower at 5.30 P.M. Saw Mr. Caldwell at 11 A.M. & cut front lawn before dinner; after dinner just got back lawn cut before heavy shower: then fed mails. Miss Kerthland called & I had to promise to go to Downpatrick & join a 100th anniversary celebration excursion of Belfast Naturalists' Field Club of which Daisy & I were Hon. Secretaries when 50th anniversary celebrations were held in 1913. Daisy not fit to attend.

30th Sept. After a bright morning, a dull afternoon, with rain in evening. Spent day trying to burn potato tops, etc., with only partial success. After tea dug half row of Blue potatoes in main plot & got a good middleful of nice spuds.

1st Oct. Called for by Miss Blair to station & drove to the Quoile old quay to join party of B.S.N.F.C. members celebrating the 100th anniversary of the Club's foundation in April 1863. A. L. & Daisy were Hon. Secretaries in 1913.

7.9.63, cont.

(On stones on margin of R. Quile along [formerly branch] [now freshwater] [and railway] [small canal] [at least I look] [I visited 2 or 3 and. How many of the [Lepidoptera] [are not?])

When the 50th anniversary was celebrated I was the only member of the committee of that year still living in Ulster (J. B. S. Standell alive, but now living in E. Ulster). Quite a large party gathered by the Quile old pier, where now only fresh water owing to the new barrage at Hare Island further down the estuary. An interesting change of flora taking place on land adjacent, from brackish to freshwater marsh & is being studied by Miss Marion Forsyth.

Later drove into Downpatrick to look at the marsh, but too wet to enter after heavy recent rain, but found *Helix hortensis* living on & at base of wall S. of bus station (i.e. the old railway station) & saw both the common & 12343 yellow forms. Then drove up to the cathedral where party shown round by the sexton, after which Miss M. Nelson drove me home, had afternoon tea & went back to Belfast. A poor day, but after rain from 7 till 10.30 AM, there was no heavy rain, but wind increased after tea. Long rest of row of Blue potatoes!

8th Sept. Sunday. After a too fine, too clear & too sunny forenoon, we had heavy showers & strong S.W. wind in afternoon & evening. Had walk in interval between showers from 2.30 - 3.30 P.M.

Weather cleared before bed time, but wind & showers during night.

9th Sept. 1963.

Heavy rain & squalls from S. S.W. from dawn until about 10 AM, then sun & frequent showers till 5 PM, later a dry & calm evening. Before dinner I cut off & cut up several dead branches of one of the old *Salix virens* in the wazzy for firewood. In afternoon between showers I began to dig the last of the year potato crop - all Blues - which were in the rain plot E. of the frames, & finished the last at 8.20 P.M. By post today I got a letter from Payne with list of *Lepidoptera* I had sent him per Fair, a week ago & in my box he sent me the ♀ *Series noctilio* which he took in a small plantation at

when he & I were returning from a few days collecting in Co. Clare, on 12.8.1955. Amongst the moth I had sent him was a specimen of *Cirrhia icteritia* Hufn. which some years ago I found drowned in a cup of glycerine & lemon juice in our bathroom here in Tullybrannigan Road. To night as I was digging the penultimate potato plant I also dug up a freshly emerged specimen of *Cirrhia lutea*, the next species in "South" to *icteritia*, which latter I at first thought it was, just as when I got the real *icterites* I thought it was *lutea* or *aurago* which had lost its colour through getting soaked in the lemon juice!!!

270
10th Sept 1963.

A very nice, calm, sunny, autumn day, after a cold night with very heavy dew - almost a white frost.
Spent day getting, refuse burnt, pruning, weeding & a few other jobs.
Put newspaper mulch around the dark red Rhod. by path along Anderson's fence, as it seemed not to be thriving.

11th Sept. After a heavy dew (almost frost) in early part of the night, it became cloudy later, but we had another very nice dry day, with some sun at times, but mainly cloudy. Afternoon became close & warm, but no rain fell, though air very damp.

Spent day at bonfire & got virtually all potato-tops burnt as well as much other garden refuse, except tops of the last day potatoes which are drying in greenhouse.

12th Sept. Another fine & mainly sunny day, with less dew on grass, so that Liza. able to get both lawns cut in early afternoon.

In forenoon I got a lot of weeding done & sowed seed of *Briza linearis* from Norway (sent me by Mrs. S. P. Beattie, of Edinburgh) in pot in greenhouse. After seeds sown on 2nd Sept. those of *Astragalus* & Composite No. 5 up to day & moved from under glass to prevent seedlings becoming lanky & fear of damping off. Almost every seed of the Composite must have germinated, I think. In afternoon I had a bonfire & got all left over rubbish burnt.

13th Sept. Cut grass in wuggie in forenoon & went to see Mr.

Livers in afternoon. A lovely fine day after a light wet mist on the hills in early forenoon.

14th Sept. 1963.

271
A very lovely & mainly sunny autumn day. Sun was warm in afternoon. Light S.W. wind. Vinnie John in forenoon with digging in Raspberry plot. In afternoon Billy & Eva Ball, Xmas carolers, from Coleraine, called unexpectedly & had afternoon tea. Left at 5.15 PM. After tea I had another very successful bonfire.

15th Sept. Sunday. A most beautiful & all sunny day, till evening when with falling glass clouds began to arrive from SW. Took 2 photos in front garden - one of Shire Donald, st. brother of Snapdragon, & Pansies. Great Roger from Edinburgh with W. P. R., the daughter "Lindsay" & the twin boys "John" & "P.", at 5.30 P.M., also unexpectedly, although we knew they were to tour Ireland this month, & had tea, saw round the garden & departed for Larne about 8 P.M. Gave him a small plant of *Erica mackiana* from Braigamore, W. Galway.

16th Sept. Another perfect day! In forenoon I dug the second area in raspberry plot. In afternoon I cleared up part of the sedge plot & had a good bonfire. Planted a clump each of *Carex pauciflora* & *C. sylvestris* in wuggie which I had dug out of the sedge plot.

17th Sept. After a terrific dew, another beautiful calm & sunny forenoon, becoming gradually more & more cloudy with drizzle & then rain between 4.30 & 5.0 P.M. from NW. dug another strip in Raspberries & later fed snails & had bonfire. Rain over by 9 P.M.

18th Sept. After much rain in early part of the night, a mainly dull but dry day with light N. to NE. wind. As the hatching of starlings & other birds has become a menace to plants by the one burn opposite Dickson's garden I spent the day clearing up the bank of it opposite Bow's & Henderson's gardens to make available a new bathing place & will put wire over the present place, but did not get this done today.

272

19th Sept, 1963.

A dark & gloomy day, with light SE. wind: in early forenoon we had a thick very wetting Scotch mist, followed by heavy rain. This gradually cleared during the afternoon but sky remained densely cloudy & air damp, but not cold.

20th Sept. After a misty morning & night, but no rain, the day gradually cleared & we had a pleasant sunny afternoon, though a slight haze prevented the sun being as hot as on the recent fine days. In forenoon I cut strips of wire netting & placed these over the burn at Dickson's to try to prevent the starlings & other birds bathing there as they have been doing almost continuously recently & making a mess. Today I found the two flower spikes of *Primula acaulis* ripped off half an inch below the flowers & cast into the stream (by Sparrows I suspect!).

In afternoon D. G. E. Anderson of Zool Dept., Queen's University, Belfast, came to see me & brought specimen of the small *Cochlicopa lubrica*, which had been sent to the Dept. by a lady living in 'Glogher, Co Tyrone, who had asked how to get rid of them, as her house had been 'invaded' by them. Dr. Henderson, who had tried to look them into a *Succinea*, promised to go & see the place & write an account of what he saw for I.N.J. That *Cochlicopa* could ever become a pest in a house would then seemed incredible, had it not happened.

273

21st Sept - 1963.

After a calm dry misty night the day became all sunny but with haze which prevented it becoming really hot, wind light & SE, becoming calm towards evening when temperature fell sharply at sunset. Spent day burning the grass, & went on 18th along sides of the new burn in waddy & did some digging along Anderson's hedge where Daisy's peas were.

22nd Sept 1963. After a very foggy night, a misty day, but considerable sun appeared midday, wind light & variable. Sunday
As a ♂ Blackbird had started to eat the fallen apples I had to prune the cordons & put up wire netting. In afternoon I had an hour's walk in the plantation, & I don't think there ever was such a varied & plentiful supply of *Agaricus* fungi.

23rd Sept. After another misty start, we had very hot sun all forenoon, though barometer falling for first time for over a week; clouds began to appear & thick hill-fog covered the hills in late afternoon, but no rain fell before bedtime. Spent forenoon & late afternoon repairing greenhouse with "Syl-glas" in preparation for winter, between these two sessions I cut front lawn & after tea I had small bonfire & cut back lawn. Gave potted cuttings of the Christmas cactus to Mrs. Edgar from our larger plant moved on 21st most of my this year's Scotch plants (in pots) & some of Miss Beattie's Norwegian seedlings (also in pots) to the second cold frame as Daisy will not want it till spring.

24th Sept. After very heavy rain from the early hours, with strong S-SE wind, we had a very nice midday & early afternoon, but much colder than late & after a heavy shower about 7 PM. a strong cold SW wind blew up. Pruned *Lydonia* & *Fire Thorn* in front garden & did some weeding in back garden. Fed some snails.

27th / 25th Sept. 1963. After a cold, dry, windy (SW) night we had a sunny forenoon, then cloud, with rising SW-S wind: rain started at 4 P.M. & continued all evening & wind rose to strong. Did a little weeding in garden, cut inside of front Barberry hedge, before rain came on.

26th Sept. After a very wild night, a mainly bright & very blustering day, with frequent showers in afternoon. As Daisy's right wrist & hand were painful with rheumatism she was unable to use it today & owing to pain in it had passed a sleepless night. Hence I got very little done in garden. Trimmed the Conic heterophyllum around the Salix caprea & planted the trimmings on edge of the mound in wuzzy near the Tree Heath.

27th Sept. After gale from W. all night, but mainly dry, the gale continued all forenoon, which was bright & sunny, but died down considerably later, except when squally showers passed over us, but passed in "Wuzzy" in forenoon & had path by the burn in afternoon.

28th Sept. After a dry & calm night, we had a misty morning with some very light misty drizzle after breakfast, we had a nice mild & calm day & though rain threatened all afternoon none fell before dark: glass began to fall about tea time & by 9 P.M. wind from SW. had become gusty with light Scotch mist.

29th Sept. Sunday. Strong gusty W wind all day, with frequent light drizzle blowing in the wind, mild with sunny intervals; wind veering NW in evening & falling. Had walk in forenoon to Linding's Leap & home via upper road in plantation; alone!

30th Sept. 1963.

A fine, but mainly cloudy day, with fresh SW. wind, after a dry but gusty night: mild. Spent forenoon clearing up stones & from the burn path in back garden & clearing sludge from upper reservoir in burn, which nuisance has been worse than usual lately. After dinner I sat front lawn & between aft. tea & meal tea I went up to the plantation & laid out about a dozen stones (rocks) for George to bring down in car after tea. George arrived at 5.30 & after tea we collected my selected rocks & brought them home - these to build up an "escarpment" on S. side of the plastic pond in back garden.

1st October 1963. Rather a blustering day with rain at breakfast time after a dry night, then a sunny midday, followed by squally showers & in evening wind (SW-W) increasing to strong. At bank, &c. in forenoon, fed some snails & sorted the rocks brought down from the plantation yesterday to precinct of the pond, but did little else in garden, except count the seedlings of Sagina procumbens found in a small area of path NE. of the lower cold frame - all from one plant which had escaped my notice before the potatoes were dug - there numbered one hundred & seventy-two, of which I should think 160 were derived from one plant. A few days earlier I had removed 10 to 20 of the larger seedlings from same area.

2nd Oct. A very nice day, mild, with sun at times, & gentle W. breeze, after a dry night & the 8 O'clock jam & shower, due to some change of wind, I think. Cleared up side of path & was burnt opposite fence dividing Mrs. McCollam's & Dickson's gardens: both in forenoon & afternoon.

3rd Oct. After a very wet night, rain cleared off after 8 A.M. & we had a very nice day with much hot sun in forenoon (cloudy later); wind light, westerly, rising to fresh before bedtime. Spent day as yesterday clearing up sides of burn at 2nd & 3rd crops! Found one fruit on Blackthorn in hedge & had to cut away many stout branches of the Guelder Rose.

276

4th October, 1963.

After heavy rain in early part of the night & strong, cold, W. wind, we had a bright & sunny early morning & forenoon, but squally showers commenced at 1.30 P.M. & continued at frequent intervals for the rest of the day, with wind (W) rising to near gale before bedtime & some heavy rain. In forenoon I brought into house from greenhouse, where they have been spending the summer, the two Christmas Cacti (both showing buds!) & 3 of Daisy's *Begonia semperflorens* (the original plant, one cutting taken in May, & one about six weeks ago - both the latter in flower, like the original). I brought into greenhouse plants whose pots had been sunk in ground. W. of raspberries all summer, that included the small flowered scarlet *Geranium* given me by Mr. Fitzgerald of Hexham (which I subsequently brought into house), *Matthiola sinuata* seedlings & *Gnaphalium rupestre*. Cut away the Vegetable Marrow plant, all but one branch, which bears a ♀ flower, pollinated yesterday.

5th Oct. After a stormy night with showers, then very clear moonlight, we had a cloudy cold forenoon & early morning, with a shower about 9.0 AM. & then an increasingly fine afternoon with much sun & falling wind: wind W., later NW, & calm by 9 P.M. Spent forenoon digging & cleaning the plot W. of the raspberries, where vegetable marrows were this summer.

Linum catharticum with two spikes of flowers open - the first spike having had the buds nipped off by (?) Sparrows: the second would have borne 3 flowers but one bud also bitten off. In late afternoon I moved Skilleen's *Primula pulcherrima* from S. side of wee burn to N. side & some yards further W. - opposite NE corner of the wuzzy - as it had got too big.

6th Oct 1963.

Rain all day - a typical south-easter, but wind dropped calm in afternoon & later veered SW & rose again in late evening & rain ceased. Stars out by 9.30 P.M. Sunday.

7th Oct. '63. This day I received from Barclay's Bank the final statement concerning the distribution of my late brother's (James Goldwell Stelfox) & his widow's (Lucy F. K. Stelfox) estate under a will. His Daisy were entitled to receive one eighth. Under this, & following, the death of Emma, the last annuitant in April 1962, I now receive the certificate for my share of 3 1/2 % of funding, Stock, 1999, 2004, kept back by the trustees to pay Emma, who was their cook for many years, her annuity.

After a damp, misty, mild, night, we had a very damp & calm day with rain or drizzle much of the time & heavy rain in afternoon. Could do little but clean up sides of the wee burn in back garden. At dinner time, 1.0 - 2.0 P.M., a Grey Wagtail spent some time on front lawn & numerous *Hirundines* (? House Martins) seen on the wing!

8th Oct. After a calm & dry night, rain set in at breakfast time & lasted till midday: very heavy at times & accompanied by strong S. wind. As a cold front-arrived wind veered to SW-W. & we had a brilliant sunny afternoon. Grey Wagtail seen again on front lawn & *Hirundines* about also. Could do little in garden but clean up sides of the wee burn. Daisy's brother Rev. A. D. Whitwell called for a few minutes at 5.30 P.M. before going home with two brother clergies. They had been at a meeting in the Rectory here. A minute, scarcely visible, winged insect taken running on white paper under my reading lamp after tea, which I think must be a Thrips, but ? Mounted on card.

277

278 9th Oct 1963.

After a dry & rather windy night, we had a dry sunny forenoon & midday, but the afternoon became cloudy with some gusts up to gale force: no rain or showers here, however. Glass fell very sharply about tea-time & then turned a bit, but jumpy & we had some gusts all evening till bed-time & after. Spent the day having bonfire & got about seven barrow-loads of prunings &c. burnt - mostly from along the burn during recent clearing up there. Also re-dug the plot where potatoes were along Anderson's hedge & next compost heap, where a certain amount of seedling weeds had sprung up.

10th Oct. A nice, calmish, mild day, dry but mainly cloudy. Did not do much in garden as had some trouble in morning after breakfast. Cut of sticks, etc. for fire lighters.

11th Oct. A lovely sunny & almost calm day: very hot sun in forenoon while I was replacing some "sylvias" in the greenhouse. In afternoon I had bonfire & dug the plot where I had potatoes in top border & E. of the strawberries, where some weeds had come up.

12th Oct. After a clear starry night & almost ground frost, we had a mainly cloudy day, with much hill-fog, but the promised drizzle did not come here. Finished digging the plot in top border, had an hour's walk in the plantation & then cleaned up part of path next Anderson's hedge.

12/10/63, cont.

279

This afternoon I watched a ♀ *Bombus lucorum* gathering food from *Trifolium machuca* flowers: its pollen baskets were already heavily laden with food!!! What this could mean I can't think unless it was dead, & at this season a bumble could hardly have been producing larvae, surely. Nearly all the *Bombus* I saw now gone - killed off during the recent storms of rain & wind. During the previous week I had seen specimens - probably males? - of *jonellus* & *agrorum*, as well as one certainly fresh ♀ of *jonellus*. Possibly also ♀♀ of *lucorum*, but I forget. The nest of *Vespa vulgaris* in rugger still active, but not so active as a week ago.

Quite a flock of Swallows (I probably House Martins) seen about the house during the day.

12th Oct. Sunday. Rather a blustery day, after squally showers during night, but the forenoon was dry & sunny. Afternoon more windy with light showers.

Swallows again numerous today & certainly a few House Martins.

14th Oct. After a cloudy night, dry, but windy early, then calm, & a cloudy day: day with fresh S. breeze in forenoon, but drizzle started about 2 PM & gradually increased to light rain, which persisted till dark, though wind became calm in late afternoon & rose at times later.

No Swallows seen, but not looked for specially. Scuffed path, & slipping with moss, between rock-garden & Anderson's hedge in forenoon & got weeds gathered which I hoed up along Anderson's hedge yesterday, before the rain became heavy.

280. 15th Oct 1963.

After a dry & mild night, a very mild day, with fine Scotch mist in forenoon & southerly wind, later dry for a short time, but heavy rain with gusts of gale force from 6 P.M. for a couple of hours before wind veered to W. & dropped. Still mild at 9 P.M. "Swallows" seen!

16th Oct. Except for a shower between ^{2.30 & 3} ~~3.00~~ P.M. we had a pleasant & dry day, with very light SW breeze; forenoon all but sunny; afternoon cloudy following the shower. In forenoon I sent Great Lewis! Just after dinner, at ca 2 P.M., a lady, Mrs M. McNeill, arrived from the Record Office in Belfast to ask me for information about the late Robert John Welch, the great photographer, & his relatives, as he resided(?) in America (i.e. son or grandson?) of his younger brother William! I had written asking for information about them if any. I could give her no information about relatives, but after talking about R.J.W. himself & his friendship with my father, we gradually got on to my own ancestors & in the end I lent her 5 family trees — one Stelfox, the others of my mother's people — & my mother's notes on her ancestors, as she was especially interested in the Orr family & already knew from a hint one of the three brothers William who were banished from Scotland during reign of William & Mary for siding with the Stuarts & took the name of Orr from a river in their own country. One of the brothers started, so it is said, the first black glass in Ulster (somewhere near Aghadeag, I think!) I gave her these on loan, of course!! "Swallows" seen!

16.10.63, cont.

281
After Mrs McNeill left about 5 P.M. I sent back lawn & once more cleared sludge from the upper "reservoir" in the wee burn in back garden. In forenoon I found Connolly, the handy man of Newcastle, working in the garden, formerly Henderson's, & learnt that the new owner is a widow named Mrs Smith, whom I have seen in the garden N. of our cottage, but not yet spoken to. I sent her a message that I would like to arrange for a proper hedge along the wee burn between her & our garden. I would bear cost of same, if she approved. *Bombus lucorum* heavily loaded with pollen seen on *Erica silensis* in front of hall door at 1.30 P.M. in sun.

17th Oct. A very nice calm, dry, sunny day, after a dry night & slight shower at 9 A.M. Spent forenoon weeding & de-mossing various paths & the whole afternoon finishing the rock-bank on E. side of the plastic pool in back garden. This is now ready for planting. Many "Swallows" seen during the day! The *Bombus lucorum* ♂ & ♀ again seen gathering food on the *Erica silensis* in front of hall door during dinner, ca 1.30 - 2.0 P.M. & later at foot of back garden heavily laden at flowers of *Erica cinerea*, *E. mechanica* & *Daboecia cantabrica*.

18th Oct. After a dry & rather windy night (S.), we had a slight drizzle about 9 A.M. & after that a mainly sunny & dry day, with S. wind: very mild & sun very warm! Plenty "Swallows" (probably House Martin for most part), ♀ (or ♂) of *Bombus lucorum* gathering pollen from various species of *Erica* on several occasions & a ♀ *lucorum* seen & flying at 5 P.M. apparently searching for winter quarters. Spent an hour in forenoon at Mrs Russell's in Glen-rue-bree Avenue, & promised her some shrubs for her garden. ^{Had bonfire & cleared paths later.}

282. 19th Oct. 1963.

After a rather windy (S.) but dry night, a drizzle with light fog commenced about 11 A.M. & gathering strength continued till 6 P.M. when wind changed & dropped & blue sky came up from NW. During the afternoon we had frequent violent squalls of wind & rain from South, but it remained mild. Arranged with Mr. Baldwell (1) to take some plants to Mr. Russell on Wed. next at 11 A.M. Nothing doing, in garden & no sawing Benches. "Swallows" not seen either!

20th Oct. A very lovely & sunny day, but with strong SW. wind early & late, which at times was cool & dry, but hot sun & light wind during the middle of the day; after a dry but windy night (S.). Sunday!

In forenoon left home at 10.15 & walked up The Green Hill, up Green's Path to upper road, then up the path just E. of the old quarry to the new road, close to the new bridge over the Glen River, then turned west & went along S. side of Drinnatilly & home by the shepherd's cottage & the old track & down the Green Hill. Home 12.45 noon.

Plenty of "Swallows", probably all House Martins seen during the day. A few yards W. of the tie-by for cars at highest point of the road SW. of the tower on Drinnatilly I saw a large plant of *Erodium cicutarium* ^{See note under date of 19.11.1963, p. 289.} in full flower; this must be at about 700 ft alt. or even more. The *Linum catharticum* by the culvert above the shepherd's cottage in full flower & a new plant of *Pringilla lusitana* by the road near same place bearing one flower. *Carex orata* (1 plant) seen on roadside just below the fork in road E. of the cottage.

283.

21st Oct. 1963.

After a dry night, a misty, humid, forenoon, with drizzle on the hills, but only an odd sprinkle down here. About 2 P.M. however, rain commenced & became intense at times & continued all aft. & evening. In forenoon I had a rather st. path along Anderson's hedge (E. part thereof) & in afternoon all I could do was to feed the birds in garage. Wind S. & strong in forenoon.

22nd Oct. After a mainly dry & calm night, we had a most beautiful sunny & warm forenoon, but the afternoon was dull with cold E. wind & rain came on at 5.45 P.M. In forenoon I gathered together a barrowful of plants for Mr. Russell of Slane, no. 1 road Ave. & in afternoon Mr. Baldwell (1) drove me & then round to her house. I stayed to plant half a dozen & returned home at 6.40 P.M. Planted by the rock burn south of Bydonia, opposite Dixon's.

23rd Oct. After heavy rain & strong S. wind all night, sky cleared from SW about 9 A.M. wind fell light but fine drizzle continued for some time; eventually we had a lot of hot sun & beautiful midday & early afternoon: colder & cloudy by 5.30 P.M. when I came home from Mr. Linman's. Spent forenoon planting cuttings of *Veronica hederifolia*, *Calceolaria*, *Linum catharticum*, *Delphinium consolida* & *Del. ajacium* into pots in greenhouse for winter & brought Mr. Wood's orcid *Pleione* into house. At 1.15 P.M. in hot sun Daisy called me to front door to watch a *Bombus lucorum* on the *Erigeron phillyria*. Hymenoptera (House Martins) seen several times during the day. Very mild & calm at last time. At 5.45 as I came down the hill on bike to Tullybrannigan Burn the air was full of small flies which did my face in stings! *Plume* moth taken in back garden = *Amblyptilia acanthodes* ^{Hüb.} _{4th instar, in litt. of 26.7.1965.}

28th
24th Oct 1963.

A very nice mild day, with much hot sun, after a drizzle night & some very slight drizzle after breakfast, chiefly on the hills, which mainly S or E, but very slight. Gale & stormy at 10 P.M.

In forenoon I scuffled the upper part of the burn path in back garden. In afternoon I planted most of the bank above the plastic pool putting in 6 *Agrostis* of my own raising, from slips (5) & one seedling: a *Pernettia*: a *Kalmia glauca*, layered some years ago: *Erica carnea* (3) pink & one white.

Several *Bombus lucorum* ♂ & ♀ seen but only one at a time so how many there may be I don't know! All at *Erica* spp. Saw definite Swallows over back garden in forenoon!

25th Oct. A very nice calm & dry day, after very heavy dew during the night: mild, but not as much sun as yesterday. Saw *Hirundines* & heard *Bumble Bees* several times. Finished the planting of the bank above the pool & then dug the Δ area between it, Daisy's cold frames & the upper path.

26th Oct. A dry day with fresh SE wind & thick smoke haze, with only a few blinks of sun, after a similar night. Sprayed small area of front lawn with a mixture (2 gal. bucketful) of winter tar-water & 4.50 selective weed killer to try to reduce moss & buttercup &c. Then cleared stones & weeds off path along Anderson's ledge in back garden, which I had heard some days ago. Saw no *Bumble Bees* or *Hirundines*, but these not looked for!

27th Oct 1963. Sunday.

Another dry day, with at times almost a gale from SE & much smoke haze, as yesterday, after a similar night, but some sunny spells. In forenoon I, alone, walked to the Donald Falls, & up path on E. bank & home through the plantation & "the green hills". Did no work in garden, saw no *Hirundines*, & neither saw nor heard any *Bumble Bees*, but these not looked for.

28th Oct. A dreadful day! Heavy rain from before dawn, almost all day, with SE wind, smoke haze & hill fog: only a few brief intervals without rain. Wrote J.F. Perkins & put 7 puzzling Lichs. into box, which I will post to-morrow.

29th Oct. After more rain at night, another wet day, though not so bad as yesterday & wind S-SW & not SE. so no smoke haze.

Linnaea borealis again with one flower spike & its two little pink bells open today & apparently now the cause for the rain yesterday! Saw *Bumble Bees* none or heard since 25th! No *Hirundines*!

30th Oct. A dull, misty, very damp day, with strong S.E. wind, after a similar night, increasing to gale in evening & then dropping to calm about midnight: no rain till after 6 P.M. but then very heavy at times with falling glass: not cold, except for wind!

In evening Miss Pat Kerthland came, with Miss Drinnan, bringing with her transparencies taken on her 3 months trip to Uganda, showing vegetation, flowers, big game & rivers around Lake Albert, L. Victoria, R. Nile, rift valley escarpment, &c. Many of these were very fine & of great artistic merit & gave us a fair idea of the nature of the country. The three Misses Murray came to see the show, also!

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31st Oct. 1963.

Similar to yesterday but windless; damp & misty, but no rain until about 3 P.M. We spent the afternoon at Mr. & Mrs. Caldwell's (1).

In forenoon I cut up a large part of the old willow (*S. cinerea*) in S.W. corner of the wuzzie, which was blown down a couple of years ago, but continued to grow. It will provide fire chipters & faggots for a long time to come. Garden very wet!

Heavy drizzle from 3 P.M. till bed time, but not a breath of wind.

1st Nov. 1963. A dry, dull, day, with NE. breeze & very damp air!

Blue sky to NE. all day, but sun obscured by the hill-fog over the hills & only shown for a few minutes about noon. Mild.

Spent day moving to new site in main plot the row of bulbs which have been for some years just E. of the raspberries & whose environs had become coated with *Polytricum commune*, & other pests, as well as sheets of *Sedum villorum* of all things!

2nd Nov. After some rain during night, a cloudy, mild, damp, misty forenoon: about noon much blue sky & it looked if we were going to have a nice afternoon, but a sudden change about 2 P.M. brought again a slight drizzle for an hour: a fine afternoon, with blue sky out to sea: wind NE. varying from very light to moderate. In forenoon I dug the area E. of the raspberries, where I lifted the bulbs yesterday. Raked up stones after lunch. George's family arrived at 3 P.M. & after refreshment we all went to Toward Lodge to collect pine cones. They left for home at 7.45. Wasps (*V. vulgaris*) still flying from nest in the wuzzie, but no sign of Bumble Bees or *Hirundines* since 25th Oct. Grey Wagtail seen yesterday on front lawn.

3rd Nov. 1963. Sunday.

A dry, dull, day for the most part, but some light drizzle in afternoon with chilly & damp NE. breeze, falling calm at night. In forenoon I had a walk in the Plantations for a couple of hours. ~~8.45~~

4th Nov. Similar to yesterday, after a dry & calm night, but rain came on about 3 P.M. & NE. wind rose to strong with intermittent showers in the evening advanced. Did some scuffling outside front gate & started to clear up the *Lupinus* *bloggiana* patch on S. side of the greenhouse. At dusk, 5th, in forenoon. ^{Malva's with first flowers open!}

5th Nov. After a little rain early in night & a little sun at breakfast-time, we had the now normal dull day with hill-fog & E. breeze, though blue sky seen out to sea all day. In late afternoon a light drizzle started but chiefly confined to the hills, with no rain here after dark. In forenoon I sprayed another small area of front lawn with tar oil wash to kill the moss & in which I incorporated 4.50 solution weed killer. In afternoon I did some clearing up in back garden, cut sticks, etc.

6th Nov. After more heavy rain during night, we had a dry forenoon with hill fog covering the hills & very light E. breeze. At 1 P.M. however rain commenced & fell to 2 P.M. after which sky cleared & we had a fine afternoon, but garden terribly wet. Beyond a little weeding all I could do in garden was to clear the sludge from the two reservoirs in the rose hedges & pond in wuzzie. Today the sun set behind the E. edge of St. Anne's bonnetage. The first flower open on the larger *Amor. Baccharis* (same date as last year!) & the first almost open on the smaller plant, whose first flower open last year on 19th October. [Last flower on larger plant opened on 1st Jan. 1964!]

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288. 7th Nov. 1963.

After a dry calm night, a dry day, but almost entirely dull, wind round to W. & so no longer any smoke haze, light in forenoon but increasing & very cold in afternoon. Sprayed another area of front lawn with tar oil wash + 4.50 weed killer. In afternoon I cleared up a piece along path W. of the Lauristinus bush.

8th Nov. A dry day, after a dry night, with fresh SW.W. breeze: mainly sunny in forenoon, cloudy & in afternoon, with some showers about, but we only had an odd drop or two in late afternoon. Spent entire day attending bonfire & got much accumulated garden rubbish burnt.

9th Nov. After a dry & calm night we had an almost perfect day with no wind, mainly clear sky, & hot sun till sunset.

Later it became cold & stormy in evening, but stars commenced to fall before bedtime.

10th Nov. Sunday. Rain & gale from E commenced before dawn & we had terrific rain till tea time - a real "south-easter"!!! Wind very strong in gusts & continued till bedtime but no rain after about 5 P.M. Milds. The smaller cactus opened its second flower today.

11th Nov. Not much better than yesterday & after a rest during night the glass fell all forenoon today to about 28.5 & heavy rain with severe squalls from SE occurred at frequent intervals all day. The second flower on large cactus open today & the third will be open tomorrow on the smaller. Mounted some plants from sand dunes & will post two novels, a violet & a *Luzula* to Miss Scannell (net. mus., Dublin) tomorrow for her opinion.

289. 12th Nov 1963.

After gale with much rain during night, gale with some squalls & heavy rain, continued all day & till bedtime, while the glass rose & a depression moved across Scotland towards Norway. Sailing between Larne & Stranraer suspended & the ship which left Larne this forenoon stated to be anchored in Hook Ryan & unable to get alongside the pier! Gusts up to 50 m.p.h. reported from Aldergrove & 100 m.p.h. from England.

13th Nov. After a cold clear night, blue sky & bright sun with fast very cold NW wind, till afternoon when some light squalls of rain passed by & wind slackened considerably. A very light skin of snow or hail covered the extreme top of Shinn Board which must have fallen yesterday evening, and when Mr. Caldwell (!) & I went up the woods & round the back of Drimahilly at 2 P.M. we could see that the bare rocks behind the Eagle's Rock & on N. slope of Shinnamaddy were still coated with ice. This is the first SNOW of the year to lie on the hills. Had another look at the *Erodium* plant growing on the road S. of Drimahilly at about 650 ft. alt. & decided it was definitely *E. cicutarium* - took small specimen! It still had a flower out, in spite of the severe gale yesterday! Haysham & Liverpool boats only reached Belfast about 3 & 4 P.M. today ^{non} respectively, having been storm bound in harbour yesterday evening. We saw 3 plants of *Pringuicula lusitana* by the road above the shepherd's cottage, but no flowers!

14th Nov. A calm, dry, cold day, with short periods of sun, after more heavy rain at night. Spent forenoon clearing up part of bank of the wee burn in front garden & got some of the material burnt in afternoon. More snow on Sl. Donard, down to about 2,500 ft.

290.
15th Nov. 1963.

A pet day I fear! Calm & entirely sunny, till sun set behind Slieve Donard, after just clearing the summit of Slieve Donard, following a clear, calm & frosty night. Ice on tubs at greenhouse & paths frozen for first time this winter. *Badia*, blackened!

Posted at 10.20 AM. eight boxes of transparencies to Mr Colville, Dundee, including 6 boxes of Scotland 1958 & 1962, including Glenfinnan; also 2 boxes of local picture - mainly of the garden. Spent an hour in forenoon at the burn in front garden; after lunch made another bonfire & after aft. tea went up to the woods & collected 3 bags of leaf mould under Douglas Firs just west of the Green Hill.

16th Nov. After a hard frost ($\frac{1}{4}$ inch ice on hills & soil frozen) a dry day, becoming milder, with strong W. wind.

In forenoon I cleared up more bank of weeburn in front garden & took away 3 full barrow loads. In afternoon I collected average pine leaf mould to fill the barrow.

17th Nov. Sunday. Dull & threatening after a dry night but no frost. Glass falling heavily & rain started shortly after noon, with SE. wind rising to gale force all afternoon. I had an hour's walk in the plantation before noon. Very heavy rain all afternoon! Glass suddenly turns up about 5 P.M. rain stopped, wind veered SW & fell & stars out by 6.30 P.M.

291.
18th Nov. 1963

Very heavy rain from before dawn till sunrise, with strong W. wind (some gales & flood, in S. of England); then fine with sun for a couple of hours, & then more rain with wind falling & much milder. The work possible in garden except to water the leaf mould collected on 16th. The plastic pool flooded until it drained across the bank on to the Burn Path near the kitchen.

19th Nov. After a calm mild but damp night, a dry dull forenoon, with drizzle or melted snow on the hills, & melted snow fell as a fine drizzle all afternoon, when I wrote J. F. Perkins & G. & J. Nixon & posted 2 documents from Dundee, MT. (S) 22.7.1954, to the latter, by 5 o'clock post. In forenoon I cleared up another section of the bank of the weeburn near front gate!

20th Nov. An entirely bright sunny day - a pet day - with no wind, from sunrise to sunset, when it appeared to be going to & probably did freeze, but glass started to fall about bedtime & it was raining heavily by 3 A.M.

but the unprayed N. half of front lawn in forenoon & collected 3 bags of leaf mould from under the old beeches S.W. of Donald Lodge bridge.

21st Nov. Heavy rain nearly all day, but short clearances in afternoon & all clear by 6 P.M. Wind SW. very strong with severe squalls - especially in late afternoon & evening, after glass had turned up. Wrote letters & mounted plants during forenoon & afternoon respectively.

Public health officer called to inform me that the Council is to make Bell drain his sewage into sewer in Tullybrannigan Road, also passing from Bell's. Strong & cold NW wind in forenoon gradually falling to calm in evening. Spent day putting in $\frac{3}{4}$ inch plastic pipe as an overflow from the plastic pond as recent heavy rain had so raised level of water to allow it to flow over the border along the burn path.

292

23rd Nov. 1963.

After further rain during night, an almost-warm day, with a little drizzle about noon, but after dinner, & continued rain till after dark. Wind S at first, then calm in afternoon, again increasing in evening. In forenoon I did an hour's weeding the border along the wee burn in front garden.

24th Nov. Sunday. After very heavy rain during night, we had frequent outbreaks of rain, with southerly wind all forenoon, but wind veered SW. about 2 P.M. & we had a fine afternoon.

The overflow pipe I fixed to the plastic pond on 22nd did its job well & prevented level of water rising above the intake of the pipe.

In afternoon I had an hour's walk in the Drinnahilly Plantations.

25th Nov. After a dry night rain commenced about 9 A.M. with strong S. wind & continued all day, except for about an hour around dinner time till 2 P.M. In afternoon I collected cones under the clump of Austrian Pines below & N. of Donald Lodge ruins.

26th Nov. A fine day with a sunny morning becoming cloudy in early afternoon, with drizzle from 4 P.M. till about six: wind NW, light.

In forenoon I continued cleaning up the wee burn in front garden near the garage & in afternoon I brought home leaf mould from the wood - enough to fill the Whealbarrow.

27th Nov. After a stormy, but clear night, garden very wet, but we had another entirely sunny forenoon with light southerly wind, during which I spent an hour weeding the front drive. In afternoon I repeated yesterday's programme & brought home the same load (3 bags full) of leaf mould. In evening the wind rose & glass fell a little & the sky was more overcast. Sent Mrs. Williams a cheque on wedding present.

293

28th Nov 1963.

After another very wet night, the day gradually cleared from NW. & blue sky spread everywhere & from noon we had sun until it dipped behind P. Donald. I spent the forenoon in garage cutting up branches & sticks for fuel & kindling. After dinner, when there was a slight shower, I went to the woods & brought home another load of leaf-mould & filled the Whealbarrow once more.

29th Nov. A perfect winter's day, after a dry, calm, night!

Entirely sunny from sunrise till sunset & later stormy & cold; wind NW, but virtually calm. In forenoon I sprayed more of front lawn (next drive & front gate) with tar oil wash & then distributed the leaf-mould I brought home yesterday. After dinner I tried to get a bonfire going & got some rubbish burnt, but all too sudden to expect a good result. A green wasp flew into Daisy's bedroom about 11 A.M. I have not looked at the nest in wicker for some time to see if any ♀♀ were flying. Heavy fog around Belfast reported by George in evening on phone & in paper next day.

30th Nov. A very white frost in early part of the night, but clear & rain followed in the early hours & temperature rose well above freezing point before dawn. After breakfast, smoke haze & hill fog & ground mist engulfed us & we had a very dark, damp & poor day, but no rain & as SE wind increased a clearer afternoon, with glass falling steadily all day.

1st December 1963. After some rain & strong SE wind during night & early morning, the sky cleared about 10 A.M. & after a short & severe squall with sleet & hail just before noon, we had a nice dry afternoon, during which I had an hour's walk in the plantations on Drinnahilly. Sunday.

2nd Dec. 1963.

Entirely cloudy with smoke haze (? from Glasgow) ^{drugs with} NE wind. In forenoon I cut up sticks & cut more branches off the dead willows in waggery.

In afternoon I had walk in plantation & collected sticks.

3rd Dec. Same as yesterday, but cloud cover not quite so dense & so more light, but wind stronger & still NW. In forenoon I moved the Chin wrapper, as it was encroaching on the three big Camellias in upper border next Anderson's back fence, & moved it to NW angle of the Δ plot above & W. of the plastic pond. In afternoon I had walk in the plantation & collected sticks, as usual.

4th Dec. Same as yesterday. In forenoon I started a bonfire & kept it up all day & got virtually all refuse burnt. In afternoon I also transplanted Daisy's chrysanthemum from the plot above the raspberries to edge (SW) of Δ plot above the plastic pool.

5th Dec. Same as yesterday. In forenoon I dug the plot where Daisy's chrysanthemum had been for several years, as well as next space to W. of same, where she had onions & shallots this last summer.

In afternoon I brought 3 bags of leaf-mould from under beech W. of the waterfold.

6th Dec. Same as yesterday, but E wind colder. In forenoon at bank, 2nd, till 11.30 AM. Then dug plot in upper border of back garden where Daisy had annuals (between the strawberries, plots). In afternoon spread leaf-mould & did some weeding, 2nd, in front border of front garden.

7th Dec. Again same!

8th Dec. Same, but calmer & milder. Wrote letters in forenoon & had walk in afternoon. Sunday.

9th December 1963.

After a keen frosty night, 1/8" ice on tubs & ponds, paths & soil hard frozen & in shade now there all day. Calm, with blue sky & sun all day & frost again after sunset.

In forenoon I pruned the pear & apple cordons, & in afternoon I collected leaf-mould.

10th Dec. Back to E. wind & smoke haze & sun never seen all day, but day & last evening's frost went shortly after midnight.

In forenoon I despoiled & looked over a box of Water Chiffens potatoes. Only found only one rotten. In afternoon I brought home a bunch of Spanish Chalk which I at last got broken up & left ready to bury down from the plantation.

11th Dec. Another day of bitter E. wind, with dense cloud & smoke haze. Dark & gloomy all day & many houses show lights at midday. In forenoon had bonfire & then collected sticks in the plantation. In afternoon I wrote letters.

12th Dec. A day with even more bitter E. wind, but sky clearer, though the formation of a large cloud cap over St. David & the hills in general robbed us of the sunshine most other areas must have had. In forenoon I had 1 1/2 hours walk in the plantation & brought home more fire-wood. In afternoon I did not go out.

13th Dec. Less wind, bright sky, no smoke haze & some sunny intervals, about noon, but very drying E. breeze nevertheless. In forenoon scuffled the plot W. of greenhouse where the Orange Lily is. In afternoon cut tops & buried gladioli in main plot with daisies & piled up 2 ridges in main plot E. of the cold frames.

14th Dec. A very nice calm, dry day, with merely an odd breeze from N, but sun did not come out till 5 minutes before dipping behind Thomas Mt. In forenoon I cut S. half of front lawn & had bonfire. In afternoon I collected chips & sticks in plantation.

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15th Dec. 1963.

To celebrate my 80th birthday &c. it was a fine dry, calm, though cloudy day, in forenoon I walked up through the plantation to the unfinished road on the slope of Brinnacilly & thence round it, W. & S. sides by road to the Donard Falls & thence down through the plantation past the Rhododendron rock (quarry) & home past the beech leaf-mould site, the gap in the hedge above the camping site: distance 3 to 3½ miles, rise 700 ft., time taken about 1½ hours, & without a halt. 11.15 till 12.45 noon.

Except round garden I did not go out again! Sunday 16th Dec. Monday. Another absolutely calm, cloudy & dry day, after a similar night: no frost down here, but a small summit-cap of snow on St. Donard & snow in various parts of England & particularly in SE. Spent forenoon sawing bits off the fallen *Salix cinerea* in wiggly & clearing 7 or 8 barrow-loads of sludge out of the two "reservoirs" in the wet burn & the pond at the Drainers. In afternoon I had a walk in the plantation & collected "sticks" for the fire.

17th Dec. Similar to yesterday, entirely dull, calm & dry. In forenoon I sprayed another patch of frost lawn with tar oil wash, but found that the brown tips of some moss sprayed last month had been removed by snow on 13th & that beneath was apparently green & unharmed. In afternoon I had walk in the plantation & collected sticks & chips.

18th Dec. After a hard frost, a clear & sunny forenoon, early, but snow clouds appeared about 11 AM & it remained cloudy, but dry for rest of the day, with light N. breeze.

In forenoon I collected leaf-mould & in afternoon sticks.
19th Dec. After a hard frost & calm clear night a clear sunny & calm day with no trace. Collected leaf-mould & in morning & sticks in afternoon as yesterday.

297

20th Dec. 1963.

Same as yesterday, entirely sunny & frosty after a very hard frost at night: temperature in garden never rose above freezing point & I hung sheets on clothes line & stiff & hoard, though in the sun.

In forenoon I collected leaf-mould & in afternoon ash sticks.

21st Dec. After a slight frost temperature above freezing point by 10 AM. & remained so all day, though not so much sun as recently. In forenoon I collected "sticks" & did not go out in afternoon. George & family arrived for Xmas at 5.30 PM. Calm.

22nd Dec. Sunday. No frost during night, but no further than either & much ice on sides of Tullybrannigan Burn in afternoon when I, George, Margaret, Dora & Dorson walked up the green hill, along to Shepherd's cottage & home along the lower road in Brinnacilly plantation.

Snowy forenoon & clear afternoon, but wind rose before bedtime. Slight southerly breeze all day.

23rd. Mainly cloudy, with S-SE fresh wind till evening when wind increased to gale & with slight shower between 8 & 9 P.M.: otherwise dry & not very cold. In afternoon I had walk in plantation & collected sticks.

24th Dec. After a wild, but dry night, we had quite a nice, but dull, day. Wind fresh S-SE, but not very cold. A fresh trough arrived in early evening, with violent gusts from SE & rain came on about 10 PM. & glass still dropping as we went to bed. Had walk in afternoon with George & family & all five returned with bags of Austrian Pine cones from grove on E side of Glen River below the ruins of Donard Lodge.

298 25th December 1963. Christmas Day.
After a severe S-SE gale & heavy rain in early part of the night, we had a
beautiful sunny day, with slight westerly wind & no shower.
not cold, though a large drift of snow on the slope of St. Donard.
Did not go outside garden! George & family departed
for Margaret's mother's at Ballymoney a little after 3 P.M.

26th Dec. Another all sunny & perfect winter day, with W. wind,
while much of northern England had rain, frost & fog for the
last two days. Spent forenoon cleaning the back of the wee
burn opposite Cochran's & in afternoon burnt the refuse.
Also spread the leafmould collected on 20th. Much of that
collected & spread earlier swept away by the gale on nights
of 23rd & 24th, as it was dry & light.

27th Dec. Cloudy, very mild, with southerly wind, strong at times, drizzle off & on
all day, no sun. In afternoon I had walk in woods & collected sticks;
in forenoon I mounted plants.

28th Dec. After some drizzle before breakfast, we had a dry day, with strong
S-SE wind & clouds coming off St. Donard never allowed the sun
to get through, though mainly blue sky above & inland. Cut up
sticks, cleared much out of upper reservoir, &c. in forenoon & had
walk in woods & collected sticks in afternoon, & then wrote G. B. D. Griffiths
& looked out Dacnysid No. 4 (*D. tibipennis* sp. n.) to send him for
his opinion. The *Hamasclis mollis* in back garden almost
in full flower, but when the flowers opened not observed! I
think some must have been open a day or two. *Erica carnea*
now mostly well in flower & *Lithospermum* "Heavenly Blues" still
with many flowers, also the "May" cherries!

29th Dec. 1963.

After very heavy rain & strong E. wind during night, we had rather a mild
day, but only one heavy shower at 1.30 P.M. Wind SW, with strong gusts.
In forenoon I had a short walk & after dinner I went by Donard Lodge
to Linding's keep & home by upper road & the Green Hill. <sup>(as on St. Donard in the
Hammerhead at Ballinacorney, which I killed
by salmon & eel, a year ago)</sup>

30th Dec. After more heavy rain during the early hours, ^{no had rain}
± all forenoon, with squally S-SW wind. This sort of weather continued
until 2.15 P.M., then blue sky appeared in W. & we had no more rain
before bedtime & wind had dropped considerably, with occasional gusts.
In forenoon I was at Post Office & then mounted a few plants.
In afternoon I had 1 1/2 hours walk in the wood.

31st Dec. After a dry moonlight night (full moon!), we had a lot
of melted snow, which fell as a very fine, cold, drizzle, but the afternoon
was dry, with strong W. breeze, wind & dropped in evening.

In forenoon I mounted plants, &c.

In afternoon I went to see Mr. Livan.

1964.

1st January 1964.

After a dry & mainly clear night, but not quite frost, we had a cloudy day, with hill fog, but no more than very faint drizzle. Blowing in the strong S. SE-SW. wind, which increased as the day went on to almost gale at times. No rain fell till about 6 P.M. when there was a heavy shower. Cold in morning, quite mild by evening.

In forenoon I put two plots where potatoes were into ridges & which had become covered with young *Oo* among from seed in the compost. In afternoon I had a walk in the plantation & collected sticks. Last bud on the large *A. mac* *Bactra* opened today!

2nd Jan. Similar to yesterday, strong S. gale, hill-fog, but dry. In afternoon I had walk in plantation.

3rd Jan. Similar, but less wind, which gradually died down, but drizzle off & on in afternoon & evening. Mild.

In forenoon I was at the bank & did some shopping.

In afternoon I had to stay to watch for the coal men &

so mounted some more plants. Saw a Shag in R. Shinnie catching fish at 11 AM.

4th Jan. Damp & drizzly early, then real rain, & fine in afternoon. No wind. Mounted plants & later had walk to waterfall & back.

5th Jan. No rain at night or all day. Sunday.

Wind NE-E moderate, falling calm in afternoon. Very mild & bright, but cloud round St. Donard cut sun off us in Newcastle. Had walk before dinner (1 1/2 hours): up The Green Hill & Green path to Rhod. Quarry; then up path to top bridge, then W. round back of Grinnethill, & home. Saw four plants of *Pinguicula lusitanica* in roadside drain above the shepherd's cottage but no flowers.

6th Jan 1964. A poor, mild, calm, day, with light drizzle off & on & heavy hill fog.

7th Jan. After a very heavy dew during the night, the mist on hills & around about noon fell gently & drizzle, & we had some sun, followed by a very nice calm, very mild afternoon. But up with the drizzle in forenoon & burnt a lot of paper.

In afternoon I had walk in plantation & collected sticks.

8th Jan. Packed box of *Coelocline* spp. to Griffiths, with letter of 24. and in afternoon went up with Mr. Goldsmith (1) to the mine "See House" on the main at top of the Glen River falls to look for more, recorded from it by Baron Hall (n. 1809?). A very nice dry day, with much blue sky & light E. breeze (clouds from S.), but summit of St. Donard covered with hill-fog which prevented our getting the mine!

9th Jan. Another mild, but calm day, dry & no appreciable wind.

Spent forenoon cutting (trimming) the sides of the "trucks" in the wuggie, & in afternoon had tea & got 4 boxes loads burnt. By parcel post I received from Mrs. Alan Garnick, who is at Larne with us last summer, of Milngavie, Glasgow, a copy "Norfolk Flora" Johannes Lid, 1952! a very nice present, indeed!

10th Jan. Another very nice & similar day, dry, mild & dull. Spent forenoon starting to tidy up border between dry & lawn in front garden & cleared the first two yards next road.

The *Lychnis* "Rouabian Seedling" cutting more coming into flower & covered with flower buds, untroubled by the blackflies, though the present bush on other side of drive virtually stripped. Why?

In afternoon I had walk in Grinnethill plantation, found a skeleton of a *Bradys*. & brought home some sticks. Heard Wood Pigeon cooing.

11th Jan 1964

Saw a gnatcatcher, after a promising early start. Wind cold & fresh in forenoon, dropping to calm about 3 P.M. In forenoon I continued weeding border along burn in front garden, when saw first bud showing on *Calandrinia* at foot of the big ash tree. In afternoon I went to the woods & brought home 3 bags of leaf-mould from beneath the wood bench, S.W. above the water works.

12th Jan. Sunday. In garden in forenoon, when Mrs. Keethland, Mr. Fitzgerald & daughter (of Heaham - biologist) called for a chat & went round garden. In afternoon I had walk in woods.

Winter crocuses with 3 flowers just open.

13th Jan. After a dry cold night & similar early morning melted snow commenced to drip at about 11.30 A.M. & continued most of the hours of daylight, with light NE wind.

I continued to weed border along burn in front garden & later went over stone of Kevin's Park gatehouse for the house & found some beginning to rot & many requiring the-sprouting. There were no worms in garage. Left fire & read in afternoon. A very light corn of snow on summit of St. Donard.

14th Jan. A dry cold day with E. wind (fresh to strong at times), after some showers at night, which covered St. Donard down to about 1,500 feet & the summit of Thomas Mt., Slieve-na-brock & Sharnish. In forenoon I collected 3 bags of leaf-mould & in afternoon sticks, strips & cones in the Drinahilly plantations.

15th Jan. A very cold, but dry, day, with very strong E. wind, & much smoke haze. In forenoon I was at Mr. Caldwell's (1) from 11.30 till 12.45. In afternoon I collected sticks & cones in the plantations. A yellow crocus under magnolias in back lawn 3 inches high & ready to open.

16th January 1964. After a cold dry night, without frost, we had another cold dry day, with same bitter dry E. wind. Much blue sky to N.E. in afternoon, but thick fog & smoke haze ^{around} over Slieve Donard obscured the sun all day. At 6 P.M. I saw Venus shining through a hole in clouds over the col between St. Donard & St. Comogagh.

In forenoon I was down town & at bank; & posted 5 specimens of *Dacnusa retundiventris* to Griffiths, N.C. R.B. Benson, at B. Mary, which I had borrowed to send home from Holiday Cott in Nat. Mus. Dublin.

In afternoon I collected sticks in the plantations in Drinahilly.

17th Jan. Another dry day, but more blue sky & much sun in forenoon & wind not so cold as more SE-S than E. Did not go out in forenoon.

In afternoon I had walk in plantations & coll. cones of *Pinus radiata* & sticks.

18th Jan. A very dull day with gale force S-SE wind & thick smoke-haze of the hills, after some slight rain & wind during night; dry till afternoon, when light drizzle blowing in the wind, turning to fairly heavy rain after tea.

In forenoon I cut of sticks & then tried to work in garden, but could not stand the cold wind & went for an hour's walk & gathered sticks in the plantations.

In afternoon I did not go out, but listened to rugby match between England & Wales.

19th Jan. Sunday. After heavy rain during night, with rising temperatures, we had a mild day, almost windless (light from W. at times) & no rain till evening, when some light drizzle & rising wind (SE) towards bedtime; much hill fog at first, but as this cleared we had about 1 1/2 hours quite warm sun, before the fog gathered once more & hid sun for rest of the day. Considerable signs of growth in many plants after the recent cold E. wind. Two flowers open on *Lewisia calandrinia* at foot of ash tree in front garden, several yellow crocuses out & snowdrops with bent heads. After weeks of passing the snowdrops began to move a few days ago, in spite of the cold E. wind. Why?

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20th January 1964.

After a mild night with a little rain, we had a most lovely spring day with sun for most hours of daylight & while there was a fresh westerly breeze in forenoon, when I continued clearing up the border by the lawn in front garden. There was no wind whatever in afternoon. Then Mr. & Mrs. Gold, all 11, drove us to Sliddery Ford where we arrived at 3 P.M. Daisy & Mr. C. walked to the sea stack along the beach through the sandhills, while Mr. C. & I spent our time over the dunes between this beach & the cultivated area between it & inner Dardun Bay. This was Daisy's first "like" since we returned from Scotland in August & she called for one hour without a rest. We had left tea on returning to the car & she came home by the road from Sliddery Ford to Maghera, passing the Dolmen in the field NW of the Ford (bridge now) & Sliddery Stone at angle of the bye road SW. of the Dolmen.

21st Jan. After slight frost & clear night - with thin ice on tubs! - we had a dry day, but haze & hill fog prevented the sun shining as it did yesterday, so it remained coldish. In forenoon I continued to clear up border by the lawn in front garden. In afternoon Mr. McNeill from the Record Office in Belfast arrived without notice & brought back the family tree & my mother's M.S. on the Orr family which I had lent her. The R.O. had made a photo copy of the M.S. & bound it for me & with my permission kept the M.S. I gave her some M.S. of R. J. Delahy & some family portrait, of great grandfather Stephen & Watson, &c. as well as the part of my mother's M.S. edited & printed by my aunt Mary Dupre Fennell.

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22nd Jan 1964. A nice dry, & calm day, with some short showers. In forenoon I cleared up another couple of yards of border between lawn & the rockery. In afternoon I collected 3 bags of leaf-mould from the wood.

23rd Jan. After another dry night, we had a dry, & calm day till 4 P.M. when light rain came on on arrival of a trough; wind strong & very cold in forenoon, when Mr. Caldwell⁽¹⁾ came to discuss plans for a lean-to greenhouse against back of house covering the kitchen & coal-house doors, roughly 11' 3" x 7' 6" x 10' high.

In afternoon I had walk in the wood, & collected sticks. In evening I finished the labelling & sorting of the Parasitica taken in Scotland in July-Aug. 1954 on which job I have been engaged almost nightly since 7th Sept 1963.

The earlier part of the catch labelled during winter of 1954-55.

24th Jan. Another cold but dry day with very cold W-NW wind & some sun. Spent forenoon clearing up border by the lawn in front garden & in afternoon had bonfire & got a lot of refuse burnt.

25th Jan. Similar to yesterday, but more sunny & less wind (NW). In forenoon discussed plan for greenhouse with Mr. Caldwell⁽¹⁾ & then had walk before lunch. In afternoon listened to broadcast of Rusty metal in Belfast between Ulster & New Zealand, which the latter won easily (24 points to 5) but Ulster & played a man short all second half & two short for last ten minutes. Posted letters re greenhouse to the U.D. Council & to Graham Bros. of Hillhead.

26th Jan. A beautiful all sunny day, though Met. Office forecast "all cloudy" for N. Ireland. Sunday. Spent forenoon measuring for greenhouse against back wall of house & drawing plan for same to take to McMillan of Brongar, as Mr. Caldwell⁽¹⁾ has promised to take us there tomorrow if fine. In afternoon I had a long walk in the plantation on Drinnahilly.

306.

27th January 1964.

Drizzle came on about 9 A.M. & it drizzled or rained all day, with cold & sometimes strong S.W. wind.

Mr & Mrs Caldwell (s) called for us at 10.30 A.M. & drove us to browse for interior Mr MacMillan & order the two greenhouses to cover the kitchen & coal house doors & to be constructed of red cedar. He promised to send me an estimate, which will probably be near £70. After leaving Browzer we drove via Kellyhaugh & White Bridge to the old pier down stream on E. side of the former estuary, from which the sea is now kept out by the new barrage at Hare Island further down stream. Here we had lunch & later Mr Caldwell gathered many species of mosses on wall, rock & the ground formerly covered by the sea & high water. (See also account under 7th Sept 1963, pp. 267-268 ante).

Later on way home through Downpatrick I bought 2 stones of sulphate of ammonia & 1 stone of sulphate of iron to try to kill moss, &c, on the lawn as the tar-wash recommended by Eric Mayne in "Winter Garden" or "P.B.C." is a complete wash out. Home at 3.15. The cost of the ammonia was 4/- per stone & of the sulphate of iron, 10/- a stone. I also bought a small sickle of solid steel for 7/6.

28th Jan. After a squally night & heavy showers, a similar forenoon, but showers gradually lessened & none after 1 P.M. Wind NW, squally, but not really cold & falling in evening. In town before dinner & had walk in afternoon. Posted 1963 transparencies to Mrs Caldwell.

307.

29th January 1964. Very mild, blustering, with showers & sunbursts. Wind SW-W. Saw Mr Caldwell & later had 1 raked & 2 barrow loads of moss off front lawn which had been browned on upper surface, but not killed, by the tar-wash. In afternoon I had walk in the plantation & collected sticks. 30th Jan. Now cold with snow on St. Bernard above 1500 ft. & very bitter, strong, gusty NW wind, though much sun in forenoon. In afternoon I had walk in plantation to investigate name of tree wanted by Dr. Gibson. It proved to be as I thought *Cryptomeria* (The Japanese Cedar) & there are three trees (one prostrate!) in the woods above (S.H.) the ruins of Doonard Lodge & E. of the falls, in a group of tall conifers, which includes *Thuja bottii*, *Larix laricina*, *Canadian Pine*, *Sequoia sempervirens*, as well as a large "fern-leaved" Beech. The buds which have been showing on the Laurel since about 2nd Nov. have some flowers open nearby & also by the old upper bridge above the main waterfall.

31st Jan. After rain at night & early morning, we had a mild, windy, cloudy, but dry day, with very strong SW. wind, falling in afternoon, but again increasing in evening with some gusts of gale force & a little drizzle. The 1st southwesterly on Hazel shedding pollen along the path above Mr. Doonard but E. of the garden. In afternoon had walk in garden & after tea got Mr. Wood to confirm my identification of the *Cryptomeria*: he explained that the narrow leaves on my specimen were the juvenile form which as in this case remain on the tree for its life: the adult leaves, he said, were broader & sometimes both forms occur on the same tree.

1st Feb. 64. After a very stormy, mainly dry night, we had a mild ^{dry} day with strong SW wind in forenoon, gradually lessening in afternoon, but increasing with drizzle before bedtime. Sat busy in house.

2nd February 1964. Very mild with fresh SW wind & frequent periods of fine drizzle (Scottish mist!) with intervening sunbursts, after a dry night. Sunday. After a dry, mild, night.

In afternoon I had a call in the woods. Hazel & catkins out at front.

3rd Feb. Colder after a wet windy night, but entirely sunny from 9 AM till 1.30 P.M. when a snow shower from SW swept over the hills & left top of Slieve Donard greyish white. Afternoon more cloudy & other showers seen in distance. Wind rose again in evening to strong from W. In town in forenoon I had walk in woods & collected sticks in afternoon. After breakfast I got Mr. Mac Millan of Crossgar on phone & he agreed to get Mr. White the local builder, if possible, to erect the greenhouse against back of house, which he, Mac Millan, is at present constructing for me. The orchid *Platanus pogonoides* has had three flower buds coming on for about a month in sitting room, & the first flower opened during the night, this was given me by Philip Wood about five or six years ago, with 3 others (which died in 1 or 2 years), & this is the first year it has flowered. It opened, the summer in greenhouse & like the 2 main cacti, the winter in the house. Both main cacti are now producing a second crop of flower buds: the larger than the others & the smaller I think only two.

4th Feb. After a windy, but dry, night, we had a mainly sunny day, with strong W. wind & before noon very slight drizzle blowing in the wind (I obviously, cloudy & drizzling wind!). In afternoon was dry & windy, but in evening wind moderated & some drizzle occurred. In forenoon I posted Roe. Lin. Soc. & parcel of *Dryas* to Griffith & in afternoon I cut up & collected sticks in the plantation.

The orchid (*Platanus*) opened its second flower, about midday & in afternoon I received 2 nice, well budded plants of *Phlox subulata* from Rosy Bell from the St. Donard Nurseries, which I ordered on Friday from Mr. Wood.

5th Feb. After a calm & clear night with quite a keen frost & thin ice on tubs & new pond, we had a calm, cold, all sunny day, with frost forecast again tonight, being under the influence of an intense anticyclone off NW Ireland, moving slowly SE. Barograph climbed to 30.8. In forenoon I got both the plants of *Phlox*. Rosy Bell planted at foot of back garden at NW corner, where two had died a couple of years ago, between the SE corner of the "three part" & the "first pool". Just as I finished this, Mr. Calderell arrived & took me in car to Lane N. of St. Donard Hotel where we collected sand to mix with the ammonium Sulphate & Iron Sulphate which I intend to top dress the lawn with, when I have got more of the moss raked out of it. In afternoon I finished & clearing up the border along the burn in front garden, especially the area around the *Potamogeton* which has become infested with *Lathyrus pratensis*.

In evening Mr. White of Crossgar rang on phone & arranged to come & see the position where the greenhouse is to go, evidently intending to do the job of erecting it.

6th Feb. After frost in early part of night & then cloudy & milder, we had a cloudy early morning, but much sun, with northerly light breeze from 10 AM till 2 P.M., then cloudy with falling breeze. In forenoon I raked another barrow load of moss off front lawn & then cut some more bits of one of the fallen willows in the wiggly. In afternoon I had a bonfire to try to get some of the old moss, & burnt. Mrs. Odell's Blue Scilla in flower & already damaged by picking Sparrows. Female Bullfinch seen at back of James Grieve cordun apple. "Heavenly Blue" & Lam. galeobdolon with many flowers.

310 7th February 1964.

A beautiful, cold & sunny day, with barometer standing at 30.99 & anticyclone stationary over S. Ireland, after a very slight frost. In forenoon I pruned various things including the Ulex gallii & adjacent Calluna, &c. & prepared for another bonfire. After dinner I had bonfire & it was still burning at 5 P.M. with nearly all the fine brown beds of moss off front lawn burnt.

8th February. Another wonderful sunny day after another frosty night, but SW wind stronger & very cold, falling in late afternoon.

In forenoon I relit the bonfire & got what was left of yesterday's burnt & then had a walk in the wood & collected sticks before dinner. In afternoon I returned to the Rugby match at Twickenham, where Ireland beat England by 18 pts to 5. At 5 P.M. Mr White of Cronin came to inspect site for the new greenhouse against back of the house & left at 5.30 after inspecting Mr Caldwell's & talking things over. Mr Caldwell also called about 4.30 & brought a long made beam he had made of heather to help remove the moss from front lawn & with it & the leaf rake.

9th Feb. A dry day, with light variable wind, after another frosty night; mainly cloudy, with only a few sunny spells in forenoon. Sunday.

In forenoon I walked past ruins of Donard Lodge almost to King St. & then up through the woods, across the burn below Lindisay's Leap & along the demesne wall parallel to King St. till I got above the Harbour; then up the old tramway from the quarries to the house. 11.30 A.M. till 1 P.M.

311 10th February 1964.

Entirely dull, after no frost at night, with light SW wind & not so cold as yesterday, & the anticyclone S. of us declined from 30.9 to 30.6 during last 24 hours.

In afternoon had walk in woods & collected sticks.

11th Feb. Dry & mild, with some rain forecast, but none came before bedtime; wind light S. In forenoon I first raked some more moss of front lawn & later resumed clearing up the Daphne blagayana plot on S. side of the greenhouse (formerly, & erroneously, spelt "blaggiana" by me!), which I started & abandoned some months ago! In afternoon I walked to ruins of Donard Lodge & thence up the path on E. side of the Donard Fell to the 2nd bridge (i.e. the former top bridge!) & home via the badger wood, bringing some sticks with me. ^{also the Paraphrygia; Diplophrygia albicans} & Paraphrygia flavescens, plus Mr. Pitts' Stygnus.

12th Feb. After a little rain during the night, another dry day, though rain forecast & threatening all day, but none had come before bedtime; wind S. to SE & freshening; mild in shelter, chilly in wind.

In forenoon I continued clearing up the Daphne blagayana plot & finished it after afternoon tea. Between dinner & afternoon tea I collected 3 bags of leaf-mould in the wood, above the water works & later scattered most of this on the Daphne, as it required top-dressing after the scaffolding I had given it in clearing it of Viola riviniana, Pansies & other plants which had tried to smother it; it is now almost in full flower. Disturbed a small plum moth while weeding!

13th Feb. After a dry & stormy night, with E. wind, we had a dry cloudy day, with almost E. gale & smoke-haze, increasing all day, but not cold out of the wind. Spent most of forenoon discussing various topics with Mr Caldwell (1) & in afternoon I had walk in plantation & collected sticks.

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14th February 1964.

After a dry windy night rain came on at 8 AM. I continued off soon all day, with strong to gale E-SE wind, and still gradually to fresh but not veering: cold, with some sleet & snow on high ground "forecast for parts of England. Spent day completing the moving of specimens of *Cochlearia* to new box.

15th Feb. Much the same as yesterday, after a wet night, but much milder & less wind: rain on drizzle, however, most of the day. George's family arrived about 3 AM. & left at 7 PM for home: before their arrival I had half an hour's work. In afternoon I had stroll round the garden & was surprised how the rain - after the dry spell - had affected some plants, e.g. The horten Rose with one flower wide open, after being in bud for several weeks, & the *Abelophyllum distichum* behind it with some flowers out, while *Corylopsis* nearly closed - flower, and Rhodo "Briar" almost in full flower. The *Camellia salweenensis* ^(planted 7.2.59) now with several flowers open, the first of which has been out for ten days & came through slight frost on several nights last week.

16th Feb. Sunday. A dry, cold, cloudy day, with smoke haze in morning, after a dry night: a light NNE breeze, however, & blew away the smoke & we almost had sun in afternoon, but not quite. In forenoon I left home about 10.45 & walked up the Green Hill, & thence by woodland path to the upper road just W. of the new bridge (i.e. the "3rd" bridge at top of the Donard Falls) over the Glen River, & then across the E. side of Drinnahilly & so home at 12.50 noon. On way down to the shepherd's cottage, en passant, as the Dorrans have moved down to the old foreman's cottage at top of the Green Hill, I counted seven plants, namely this last season's seedlings, I think, of *Pinguicula lusitanica* (all quite green!). The original plant of *Erodium cicutarium* on the road SW. of Drinnahilly seems dead, but numerous seedlings seen around it & quite green.

313

17th Feb 1964.

After a dry night, slight snow caps on St. Bernard above 2,000 ft., but none down here. Cold with rain light NNE-N breeze. Fine but sunless in forenoon, slight shower of drizzle - hail in afternoon & perhaps a shower after dark. In forenoon, with help from M. Giddings, I got front lawn dressed with Sulphate of Ammonia & Sulphate of Iron mixed with sand & in afternoon I gave a dressing to back lawn & then finished the stock of ammonia down in hand by giving a general sprinkle over entire front lawn. All this put on dry & by hand.

The slight shower later will perhaps help to spread the dressing. Both the blue & the white *Anemone hepatica* with flowers today & the blue flowers picked off & scattered (by Sparrows, I presume).

10.30 P.M. Just heard a peal of thunder, as if out over the sea!

18th Feb. After a cold night with some rain showers, which left the garden white till about noon & the footpaths at first dry, we had a cold dry day with strong NE wind. Heavy snow fell in some parts of E. Scotland & England & S. of England! Considerable blue sky out to sea in afternoon, but we have had no sun owing to clouds over the hills. Rain not well!

19th Feb. After a dry cold night, but no frost, we had another dry cold day with fresh NE wind, but brighter than of late & considerable sunburst. In afternoon I went to see Mr. Livers.

20th Feb. No frost during a calm, cloudy night: a dull very cold forenoon, during which I had bonfires, with a cold, but light E. wind: sun in early afternoon: wind dropped in evening & I fear frost, which if it comes may destroy flowers on *Camellia* & Rhodo "Briar & truck". Collected sticks in afternoon. Dug at doctor's!

314 21st Feb 1964.

After frost at night, with ice on tubs, etc., yet flowers of *Camellia* & *Buc. a. Br.* not destroyed, we had another dry day, with sun shining through a light haze all forenoon, falling barograph, SE breeze, & not nearly as cold as yesterday. Wind increased in late afternoon & rain began to fall about 6.30 PM. Marion Forsyth called in afternoon. In forenoon I collected 3 bags of leaf-mould in wood place & in afternoon I collected sticks.

22nd Feb. After a wet night with strong SE wind, we had a cold wet day with SE wind, falling light between 11.45 AM & then rising again later to strong rain off & on all day, with only short & dry intervals, & occasionally turning to sleet at times & probably snow on the mountains. In forenoon I cut up sticks brought home the last two days & dug & watered under the greenhouse benches where the Rhodos. & Azaleas for the new team to be to go, as these are now on their way from Knap Hill Nursery, Woking, Surrey.

23rd Feb. After another wet night & rain with SE wind - heavy at times - till noon, we had a very nice, mild, afternoon, with hardly any wind. Sunday.

Only at post in forenoon, but in afternoon I met Mr. Caldwell (1) at 2.30 & we had walk in the plantations till 5 PM. with much blue sky overhead, but sea mist coming in from sea over Grandeur, & after 2.45 p.m. later we had sea mist also.

24th Feb. A very dull day, with the usual E wind & heavy rain in early forenoon, afternoon dry with hill fog, low wind & colder than in morning; wind increasing in evening to near gale & veering S. collected sticks in afternoon. After consulting Mr. Caldwell in forenoon I ordered various gadget, from Haines Ltd for the new greenhouse to value of £12, such as: lectistakes, thermostats, one blind, polythene sheeting, trays, etc. (most from Scotland).

24/2/64, continued.

By the morning's post I received a letter & box containing 10 Hymenoptera from John C. Cunningham (a nephew of Stanley Skellern) of 422 Manor Road, Forth Hill, Glasgow, W.3. with a request for their names. In the evening I was able to put names on all. They were collected in the counties: Dunderton, Darby, & Dyr (3 aculeate) - 1 *Sceliphron opifera* from France? - 4 Saphirinae, including *Dolichus pectoratorius* ♀; & 3 Ichneumonidae, including 1 ♂ *Trematopagis erythropelma*, a species I had not recognised before, but very easily identified by the curved yellow lines on the face (the line being in all other species. These of parallel & close to the orbits). He, Peter, sent me this *erythropelma* to keep. A.V.S.

25th Feb. As it was drizzling, with strong SE wind, I spent forenoon writing to John Cunningham, packing up his box, which was posted in the afternoon. For noon onward we had no rain, though hill fog covered the hills. However, about 1.00 PM. & SE wind continued. U.T. delivered at 5 PM. the dozen Rhodo. & Azalea + 3 Rhodo. came. I had written for about ten days ago: to grow in pots in the new greenhouse. The R. corner (2) to be planted in open, & the one I got a few years ago nearly died after flowering last year. First flowers open of *Chimonodoxa*, but only one or two.

26th Feb. Spent forenoon unpacking & heeling in the Rhodos, which were delivered yesterday from Knap Hill nursery, putting them in the greenhouse under the bench. In afternoon I did various jobs, including the de-sprouting of a large box of "Blue" potatoes & digging in compost to Sweet Pea row along Anderson's fence at his garage. Some old SE. wind, damp air & much hill-fog. Sax. spp. from Cunningham & Sax. apiculata with first flowers open.

27th Feb. After some rain at night, only two slight showers today (at 11 AM. & 5.0 PM. but wind still SE, very damp with hill-fog. In forenoon I planted in various places, 2 Rhodo. Carnarvon, one Rhodo. Sapphire & one Sapphire x *Augustini* in back garden & I removed

316 27.2.1964, cont.

Lincothor from the Rhodo. plot next the whin to top border near the Ben Bulbin *Salix phylicifolia* (originally, mistake for a seedling *Rhododendron* 3 years ago it is now flowering for the first time). In afternoon I de-sprayed the last of the "Blue" potatoes, cleared sludge from the upper reservoir on the lake bank & prepared for the downy mildew in waxy.

28th Feb. A beautiful sunny day, with light breeze, at first S.W. but turned E. at 2 P.M. which brought a short shower, then sun once more. Spent forenoon weeding along Anderson's fence & just W. of same. In afternoon had a bonfire & also cut down last year's dead growth on some plants & did some weeding.

Ground frost forecast in some places. Took photo of *Camellia saluenensis*. 29th Feb. Another beautifully sunny day, after a dry night & very white ground frost, but no ice on tubs & *Camellia* flowers not destroyed, but with keen on-shore E. wind most of the day. Spent early forenoon writing letters including an order (£6.0.0) to Woodman's of Penryn for cat & bird repellents, a strawberry mat (9'x9'x2') & 1/2 lb. of Onion Sets for Daisy. Then went for an hour's walk in woods & collected sticks. In afternoon I cut off dead ferns &c from various plants & clipped *Erica* etc till 4 P.M. Then went in & lit fire.

1st March 1964. Sunday. No frost during night! A similar day to yesterday & virtually all sunny, with some slight hill fogs & some cold E. breeze, as an anticyclone approaches from S. Scandinavia & Germany. Spent day in garden, weeding, &c. As yesterday many Honey Bees at the *Malva* flower, but no Bumble seen, though I thought I heard one yesterday. Ornamental or willow catkins melting visibly.

2nd March 1964.

317 After slight ground frost we had a dull dry day, with much haze in morning & very light but cold E. breeze: no sun all day & wind gully, cold & coming. I spent forenoon planting, and then mixed, rooted cuttings of *Gracilina* along the hedge by the lawn in front garden, but did not finish this till 4 P.M. as I was interrupted about noon by a visit from Mr. McNeill of the Record Office returning some family MSS. & photo of my grandfather, James Stelfox, my father also James Stelfox & my eldest brother & a line, James Boldwell Stelfox. At 4 P.M. I went to call on Mr. Blair who had been laid up with flu. When in garden about 10.30 AM this morning he heard a Bumble bumble, & on looking up saw a pair flying & wing to wing - from NNW towards the Eagle Rock on NW side of Shinn's Pond, where Bumble most common years. Only one seemed to work at intervals.

3rd March. A most lovely & hot sunny day, with very light on-shore breeze, after a dry, calm, & mild night, without dew. After clearing up some rubbish along the lawn in front garden & watering the *Gracilina* cuttings planted in hedge yesterday, I cut the front lawn for first time this year with the electric mower, but did not get this finished until after dinner, about 2.45. Then made bonfire & got all rubbish burnt before tea & in intervals cut paths in the waxy - first time since autumn & a pretty tough job too! After I had finished cutting the paths I was in the act of lifting the moving machine on to the shed when I was surprised by a Bumble Bee dashing almost under my nose & over Anderson's hedge, so that I had no chance of seeing its size or colour. It came from the direction of Brown's & is the first seen this year, though on 29th Feb. I thought I heard one near the *Malva*.

51⁶⁶ 4th March 1964.

Wind damp NE light, entirely cloudy, with shower about 11 AM, dry later, but depressing & unpleasant compared with yesterday! In forenoon I potted, in 6" pots, those *Rhododendron* got last week from Knap Hill & not planted in the open, in preparation for moving them into the new lean-to greenhouse when it comes.

In afternoon I had walk in the plantation & collected sticks. 5th March. A very nice day, with light E or NE breeze, & much sun, turning cold after sun went behind the hills about 4.30 PM. In forenoon I dug strips of raspberries, where *Fragaria chrysanthi* Sprunt, are, as they get very weedy & *Bos canina* coming into flower. In afternoon at home & then did some reading.

6th March. After a cloudy, cold, night, the forenoon had a cold drizzle till 2 PM, which fell as snow about 2.00 PM. In afternoon was dry with some sunshine & cold sharp very light N-NE breeze. The *Rhod. vilpinum* ^{took photo. also?} now in full flower & very lovely, so made a screen over it in case of frost tonight. The *Schiz. cinerea* in Anderson's garden now in flower & one of ours near weeburn in waxy almost so, but the other not nearly in flower.

7th March After quite a hard frost with ice on tubs & pond we had a very nice day with considerable sun. Miss Kitchard called at dinner time.

In spite of cover the *Rhod. vilpinum* rather damaged & also the pink & the white *Benellia* (now also in flower). Had lamp in greenhouse & covered *Rhod.*

8th March. Sunday. A similar day after further frost at night.

In forenoon I walked to 3rd bridge over Glen River & home round S. of Drinaghilly. Took one photo - looking towards St. Brigid's Hill of a second or more. Later took one at 3 ft. of *orobanchia* (sals. var.) on cordons in sunlight. In afternoon did some reading.

9th March 1964.

No frost last night, chilly in forenoon with NE breeze. Middle with variable light breeze in afternoon; cloudy all day, a drizzle from 4 PM till 10 PM. Rain M^{rs} Thyle of brosega. to see how the greenhouse is getting on & to reply we told it was ready, that that he was very busy, the work, had hopes for next week, would certainly have it up by Easter & would plan it end of month. Then called on Mr. Caldwell (1) & after dinner made a bonfire & trimmed *Lasiolepis* & *Heather* in front border & various other plants. First flower open on *Viole odorata* in front of the border fence.

10th March. After a dull, cold, frosty night, drizzle, with E-NE wind commenced dusk, breakfast & lasted all forenoon; in afternoon, which was dry & cloudy, I had a walk in plantation & collected sticks. Later I started to make a double-decker nesting box for the Robin & Blue Tit, with entrance at opposite sides of box.

11th March. No frost during night. A sunny forenoon, but strong & cold E wind. Afternoon cloudy & after a dull E or SE wind more to strong in evening much & thick smoke haze, but no rain. In forenoon I finished tidying up front border & later took away & burnt to burn load of brimings. Several of the dwarf evergreen Japanese *Quercus* have flowers out, as well as the *Erica darleyensis* & *E. nardifolia*. While the white & pink *Erica carnea* are now just about their best. The buds on *Forsy.* this now showing colour. Buds on many of the more sensitive in both front & back garden also showing.

In afternoon I looked the area between the cold frame & plastic tent in preparation for planting onion sets for *Fragaria* & *orobanchia* from Woodburn of *orobanchia*. Riddled stones off this & other places & dumped them on edge of weeburn.

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12th March 1964.

Another dry & dull day with cold wind: very thick smoke haze. Rain promised in afternoon did not arrive till 7 P.M. although we heard on phone from P.C. Feris that it had rained all day in Dublin.

Made two trips, afternoon & forenoon, to collect sticks & later I completed & hung up a double-decker nesting box under the eave of garage roof where it will be also overhung & shaded by the Wisteria in front of the kitchen window. ^{Robin's nested in house} Not late in year!

13th March. After rain all night, we had light drizzle most of the day, with SE wind & very thick smoke haze: about 7 P.M. the wind seemed to veer S. & the haze cleared. In forenoon I cut up sticks & sorted plants mounted during the winter & in early afternoon I went to David Hanna's & left an urgent note for him to come & look at the electric mower which gave up half way through cutting front lawn yesterday morning. At 5.20 the heating apparatus, etc., arrived for the new greenhouse from Hume's Ltd., which was sent off per British Road Service from Byfleet, Surrey, on 3rd March.

14th March. After strong wind & heavy rain from SE all night, this weather continued till about 10.30 A.M. but no rain fell after this beyond a brief shower at 2.0 P.M. P.C. Feris arrived from Dublin at 11.15 A.M. to discuss the Irish Scabbard which I & I have been working on for some years. He left at 6.30 P.M.

15th March. After almost frost at night we had an entirely cloudy Sunday with cold SE wind & thick smoke haze over the hills: a little light drizzle between 10.30 & 11 A.M., otherwise dry. In forenoon I had 1 1/2 hours walk in the wood, & in afternoon I commenced to re-write & revise my key to the species of *Bracon*.

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The first of the second crop of flowers of the so-called "Zamor Bacten", *Zygocactus*, opened this evening. It is the only flower on the smaller of our two plants. On the larger plant there are I think fifteen buds of which three are within an extra day of opening.

16th March. A dry cold clear night was followed at 8 A.M. by a drizzle of rain & snow, which lasted about an hour. The rest of the day was entirely cloudy & dull, with rising SE wind & dry S. gale & snow on high ground in N. Ireland, Wales & S.W. England tonight. In afternoon I had short walk in wood, & collected sticks, etc. I saw that David Hanna called to look at electric mower & suggested I should write the Rugby Engineering firm in Belfast (agent for Wabco) & ask them to overhaul the machine, so I wrote & asked them to do so & posted letter by 5 P.M. post.

17th March. A most dreadful day, with severe SE gale, rain & sleet all day, after a similar night. In afternoon, middle of it, had to go out.

18th March. Almost the same as yesterday, after a 2 day windy night: very cold show, SE gale, with light drizzle or melted snow in forenoon: gale with slabs of melting snow, sleet & rain in afternoon: gale continued till bed time, but rain, etc., ceased after tea, but came on again later. The two first flowers, of 2nd crop, on the larger *Zamor Bacten* were open this morning.

19th March. After more rain with SE gale during night, the heavy rain & gale continued till after midday, when wind veered to S. but heavy rain continued at intervals when wind dropped suddenly to calm about 4 P.M. by which time temperature had risen considerably.

20th March 1964.

After another wet, but mild, night, it was still raining at 6 AM, but this ceased shortly afterwards, & no rain fell till about 3.30 PM. Then there was a heavy shower, from then it rained till dark. Wind very light all day, varying from SE to S & SW. Very mild! Snow, however, still lay on Slieve Donard down to "The Black Rock," as Canon Lett in his paper on the names of the mountains calls the cliffs at head of the Tullybrannigan Burn, where the Black Fern & Scurvy moss grow. He also refers to "The Long Rock," which I have found out is the old name for the cliffs west of the 2nd bridge (formerly the upper or top bridge) on the Donard Falls in Donard Lodge Demesne. This cliff was largely quarried away by the Forestry Dept. when making new road, after they had taken over most of the demesne from Curranley family & what remains is almost entirely covered by a dense growth of *Phacodendron portense*. I was in the town at 6 PM. & back in forenoon.

21st March. Entirely dull, very damp thick smoke haze, & hill fog all day, but no actual rain, after a similar night - very mild, with E draught at times. Had walk in forenoon to collect shells, after calling on Mr. Caldwell.

22nd March. Sunday & first day of Summer Time. A soft, mild, dull forenoon & in afternoon we actually saw the sun, but a light cold E breeze kept temperature down except in shelter. In forenoon I had 1 1/2 hours walk in the wood & spent afternoon in back garden, where in week-end took 2 photos of *Sax. aff.* *Chionodoxa* & *Corydalis pauciflora* in flower & *Campanula medium* near the *Deutzia blayana* at greenhouse. Planted in pot (in greenhouse) the 'seed' of the large *Ran. hastata*, which has been for about a year in pot of the soil & mostly rot but several roots, its lower half having rotted away in the soil.

23rd March 1964.

After a dry night with heavy dew, we had a dry day till evening when drizzle with rising SE wind began. In forenoon we had some sun bursts, but after a while about 11 AM the rain commenced. It was a very cold & miserable day, in afternoon. At 12.30 noon Mr. Whelan, leaving from Lurgan drove up when I was working front drive & with my help & the driver unloaded the timber, after which the 4 men began at back of the house. In evening I was up Mr. Whyte to ask him when he was going to erect it, but got no very definite answer.

24th March. After terrific rain during the night, with no wind, we had a dull mild & damp day, with thin drizzle for an hour between 11 AM & noon, but otherwise dry. Almost windless, but SE S in early part, veering to NW & much cooler by tea time. The day began with a glow until 7 PM. Whyte to say he would arrive about 10 AM & so he did, with two gang lads & a trailer full of tools. By 5 PM they had the foundations in for the greenhouse & other preparations made, so that they should have the frame erected tomorrow, much to my surprise. I must say the previous night's rain, I think, saved much floundering in stone. In line back & SE carriage house below us as the sewer could not take the flood on the level ground, as it told the Council when they turned the headwaters of my 1000 down into the river above the cemetery, when Tullybrannigan Road was widened about 3 years ago.

In afternoon I saw a very large ♀ *Bombus lucorum* at flower of the ornamental white-flowered *Oleandra* in back garden.

25th March 1964.

A bright cold day with strong NW. wind: a few showers about but only one seen over us at 11 AM. Bob front lawn & did various jobs in garden. While Mr. Whyte & his two assistants put up the frame of new lean to greenhouse. All that is required now is the glazing. After a dry windy night with only one heavy shower, we are once more promised the possibility of ground frost tonight. A ♀ Bonaparte's Lucorum seen at 5 P.M. on the Erica's in front border.

26th March After almost frost we had a lovely day, with almost all morning till late afternoon, when it became cloudy, but no rain fell before dark. We planted one row of onion sets in the plot next the plastic pond & one row of peas in plot along Anderson's hedge nearest the compost heap. I also did weeding in paths & along rock garden & back lawn in forenoon & in afternoon I cut paths in the wiggly. Numerous willows nearly in flower. Saw a large ♀ Bonaparte's Lucorum on Bonellia in front of back door at breakfast time; also heard several during the day in back garden. Our nephew Mr. Blair heard the Chiff Chaff, probably on this date, but is not certain. ^{See 174 page.}

27th March. A very bad day with drizzle & SE. wind all day.

28th March Sat. Drier, drizzle & SE. wind in forenoon.

^{Howard & Margaret Hudson & Stephanie spent evening with us.}

George & family arrived about 12.15 noon & stayed till 5 P.M.

In afternoon, as drizzle had ceased & wind dropped, George & family had a walk in the woods where everywhere was running with water. Mr. Whyte's new finished the

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erection of the greenhouse & completed about noon!

29th March Sunday. Spent forenoon removing the grass sods from the greenhouse & wrapping the back lawn & covered 7 loads of sods in Wharfedale & delivered them at far end of compost heap. In afternoon had walk in woods. Later when washing up after tea 6.30, a Chiff Chaff flew to window & alighted outside the window & when I was looking at it, Mr. Blair, our back neighbour, who had been in, who said she had heard one a few days since. "But couldn't get it to come. I said day, but probably the first day, which was Thursday!"

30th March Easter Monday. Spent most of day, which was fine, some sun, with light cold E. wind, removing old soil in new greenhouse & refilling, and the other with new soil from last season's potato plot, mixed with some sand & peat.

31st March. Similar to yesterday, day, with very cold E. wind, but less sun. In forenoon ordering wood to make two extra supports for shelves in new greenhouse. In afternoon went to enquire for Mr. Lister who had not been well, but he himself opened the door to me & brought in & showed me various plants he was growing from seed & gave me three plants of Primula scotica given from my seed two years ago & also two seed of the large pink "Sanicragi" which flower from Jan till March. The former I sent each in one of 3 pots, & the latter I planted on bank N. of the rose house in front garden. I put it at the base of the ash tree.

1st April 1964.

Snow on yesterday & entirely dull in forenoon, with little NE wind, but in late afternoon less wind & sun came out for last hour before sunset.

At 9.30 PM saw Jupiter in western sky & very bright & there may be frost. Spent most of day working at shelving in new greenhouse & with Mr. Caldwell (1) help got two additional bushes ready to be in the 3 shelves. Also put in a second row of onion sets for Daisy in a plot above the plastic ground.

2nd April. Similar day, perhaps not quite such cold NE wind, with a few short sun bursts, after almost frost during night. With Mr. Crawford (1) got shelving in new greenhouse completed, heating tubes in place ready for Marie Hume to connect with electric main, & spent 1/2 day.

Also planted a third row of onion sets next other two rows.

3rd April. After a slight ground frost which left thin ice in a bowl of water near foot of back garden, but did not freeze the water in the tubs at the old greenhouse, we had another dry, cold day, but wind very light, NE, & we had much more sun. Spent the day altering garden around the new greenhouse & hope to finish this work tomorrow. But back lawn & filled hollow in paths in the wiggly willow beds from corner of new greenhouse.

4th April. Same as yesterday, but no frost during night & less sun. Continued the changes in garden around new greenhouse after being at bank in forenoon & also spent some time attending on Mr. Caldwell (1) who came to make dining room window self waterlight & cut out a rotten part at base of one of the uprights in window of that room. Took photo. of SP Leonard with old snow-patches at 9 AM from front garden, at 1.30th of a second in weak sun! Very good photo. AWS.

5th April 1964

A lovely sunny morning after a clear night, but no frost, though a light wind in cold in west E. wind at 10 AM. Took another photo of SP Leonard from the wiggly willow beds. ^{some photo was taken & was correct, but misplaced by Kodak! AWS} Took garden showing in view of the plastic pool, & Marie Elizabeth & the kitchen. Sunday.

Both photos taken at 1.30th of a second in bright sun! In afternoon walked to the Leonard Falls & up the path on the E. side to second bridge & home via the hedge wood. While in forenoon I nearly completed the new surrounding of the new greenhouse. Took 300m more photos in the woods in fair light.

6th April. After considerable rain during the night, we had a dry sunny day, but not as warm as forecast yesterday & I fear frost tonight. Spent day (1) feeding snail, for the first time 1964, (2) working at surround of new greenhouse, & (3) showing visitors round garden. Ordered 12 Polargonums from Jackson, of Woodville Nursery, Bragvale, Halifax. D.L.

7th April. A most perfect hot sunny Spring day with very light soft SW breeze, after a heavy dew, with rain promised for tonight.

In forenoon I finished remaining \pm ! the surround of the new greenhouse in early afternoon. Sent ground lawn; & later planted 3 rows of shallots in a plot above plastic ground next the onion sets planted last week. In evening Marie Elizabeth & I took her to the Stranmillis Training College, Dublin & brought back with them a John Borden from Glasgow, who came to help in the field course for their studies (instead of Stanley Shiller) at the Marine Lab. at Stranmillis, which finished today.

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8th April 1964. After a dry mild night, without the rain forecast by met. office yesterday, we had a real warm Spring day, with much sun until late afternoon, when it became cloudy, glass falling a little & light drizzle with S. light breeze between 7 & 8 P.M.

In forenoon I cleared one of the cold frames, & disinfectant soil with Jeyes fluid. In afternoon & evening I raked stones 2" off the plots next to & between the rows of raspberries, a job I have had to wait to do since August in some cases, owing to wet state of the ground & it was only just possible today for first time since it was dug over.

9th April. After a mainly dry night, we had some drizzle in the early hours & during the forenoon, although the sun shone through it, there blew in the southerly wind a very fine & wetting misty drizzle. The afternoon was dry, but cooler, as wind veered to W. & we had a coldish early evening with showers. The water butt, 20 gal, for new green house was delivered at 3.15 P.M. During the drizzle in forenoon I cut up pumpkins off the garden & frost Willow for fire-brighting, & for rest of day I raked stones off last year's potato plot & weeded paths, &c., as the winter seedlings of *Poa annua* & *Lardonia hirsuta* were coming into flower.

10th April 1964. A lovely sunny day after a dry night: no frost! But a cool SWW breeze blew all day & cold when cloud covered the sun. Spent day clearing path along Anderson's hedge & preparing area E. of the frame for Daisy's seed bed (for Annals) &c.

George & Mary
Apr 8. 5.00 P.M.

